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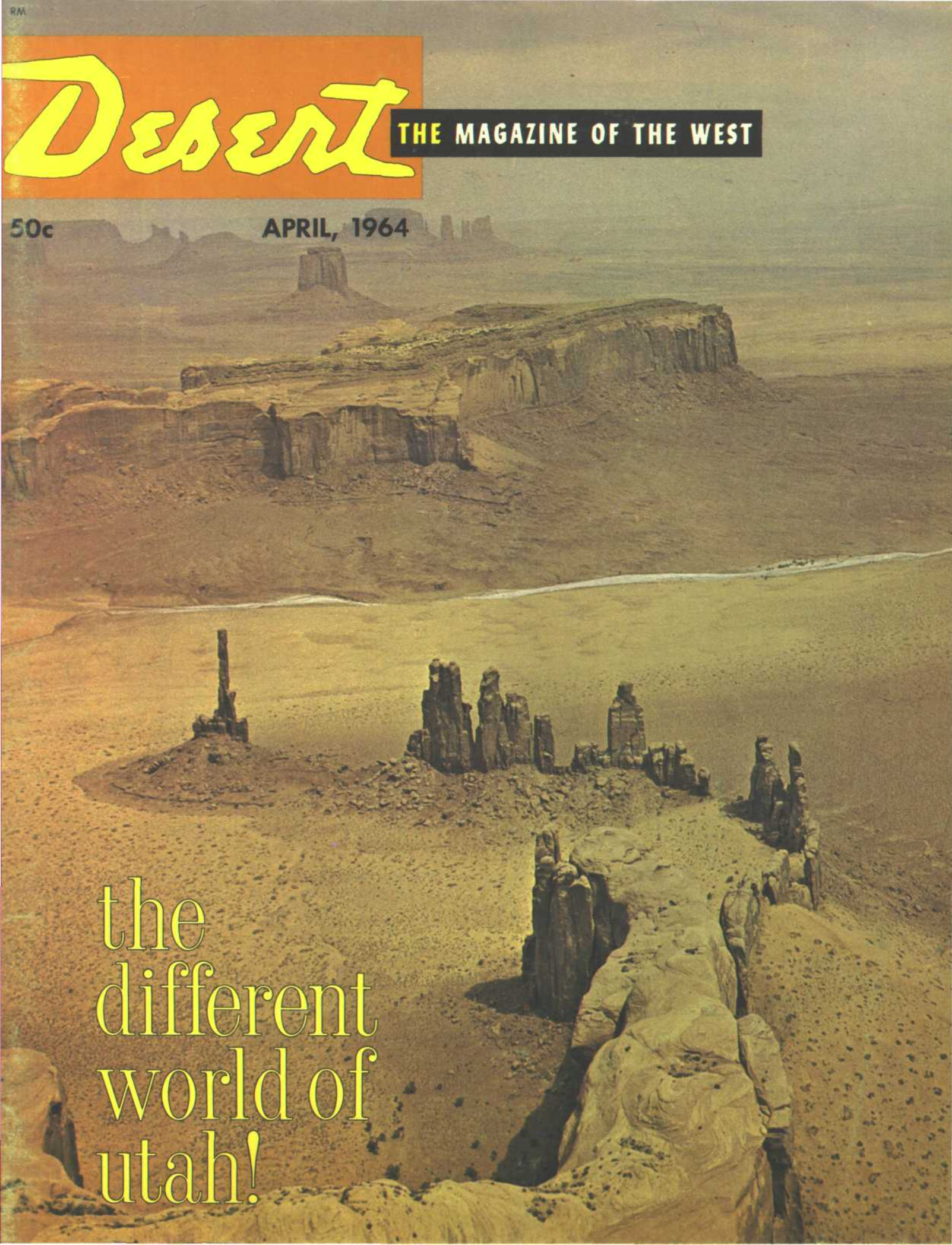
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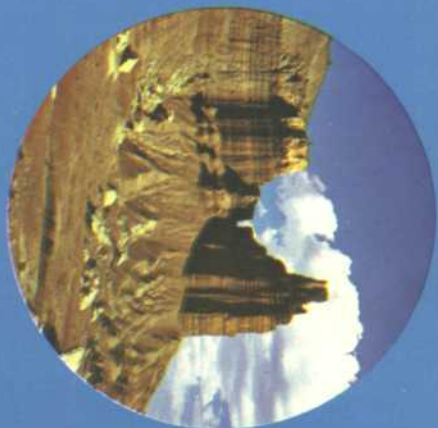
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An Indian legend told by Chief Quick-brown-fox-jump-over-lazy-dog's-back to Edmund A. Braun.

You come sit on teepee floor. Me tell about squaw name Pretty-like-heck-but-got-big-feet.

Long time back come harvest time. Come Swallow Dance. She dance much good. Wear mask; look like bird. Son of Chief see for first time. Him like much.

While dance, come big mountain lion. All tribe run; want get far from fast! She run. Lose moccasin. Mountain lion go. Tribe come back. Son of Chief want Pretty-like-heck-but-got-big-feet but not know what look like. Him got moccasin belong her. Him try but no can find foot fit um moccasin. No one got feet so much big. Many moon go by. Son of Chief no feel good. Him no eat. Him no sleep. Him in love. Bad.

One sun, squaw cook dog stew with mushrooms. Grass catch fire; grow fast! Pretty-like-heck-but-got-big-feet run up. She stamp out fire much quick. Son of Chief see. Him grab. Put moccasin on foot. Fit like made for. Him happy; much happy.

Son of Chief marry Pretty-like-heck-but-got-big-feet. Come many harvests. Come many papooses. All got um big feet. Papooses grow up. Use um feet stamp out prairie fires; paddle canoe; walk on grapes make um firewater. Make much wampum. Live happy long time. No need use um head; use um feet. Ugh.

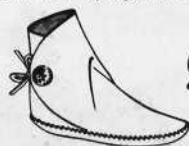
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Desert

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TO READ SALT LAKE CITY CARTOONIST CHRIS JENSEN'S ENLIGHTENING INTERPRETATION OF THE ANCIENT INDIAN MARKING AT ONE OF UTAH'S FINEST PETROGLYPH SITES, TURN TO PAGE 20.

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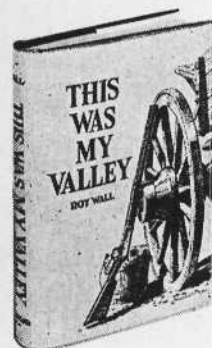
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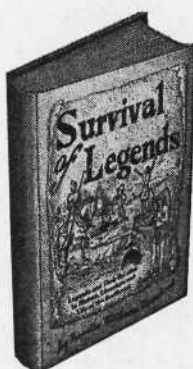
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New Books For

(Because he has devoted years to studying and knowing the Hopi Indian, DESERT invited Harry James to review this book).

BOOK OF THE HOPI By Frank Waters

Frank Waters ably demonstrated his gifts as a writer in *The People of the Valley* and in *The Man Who Killed the Deer*. Considering this, his latest publication, *BOOK OF THE HOPI*, should have been the modern book on this interesting tribe of Indians. Alas! it is not.

Pre-publication announcements and later statements by the author himself led us to believe that the secrets of the Hopi way of life and inner meaning of Hopi ceremonialism were about to be revealed for the first time. After a very careful reading of the book we have to report that we found in it nothing new, nothing that had not been recounted in the extensive literature on the Hopi by a host of sympathetic scientists who are generally accepted authorities on this people. To discount the work of such men and women as Fewkes, Stephens, Colton, Titiev, Watson Smith, Simmons, Elsie Clews Parsons, and Laura Thompson is regrettable indeed. And to claim, as the author does, that "it virtually constitutes a Hopi Bible," seems rather presumptuous.

BOOK OF THE HOPI demonstrates only too well the danger inherent in trying to depict a complex way of life, as the Hopi way is, through only one informant. It is true that Waters lists the name of many Hopi from whom tape-recorded statements were taken, but all these accounts were translated and interpreted to Waters by Fredericks. In turn, Waters wrote them out in his own highly mystical style.

In describing the sad schism that tore Oraibi apart in the early part of the century, Waters places the major responsibility for it upon Chief Tewaquaptewa—we are not following the spelling of Mr. Waters, and he makes no mention of the part played by missionary H. R. Voth, who, in this reviewer's opinion, was more responsible for it than any other individual.

Our major concern over *BOOK OF THE HOPI* is lest it prove to be another factor in the ever deeper schismatic confusion that is doing so much

Desert Readers

By Choral Pepper

to disturb the Hopi, who, before the white man came to their land, considered themselves to be the "little people of peace."

Published by Viking Press, drawings and source material are recorded by Oswald White Bear Fredericks. 347 pages. \$10.00.

Harry James

THEY CALLED HIM WILD BILL

By Joseph G. Rosa

Strangely enough, or maybe not so strangely, it took an Englishman to come up with one of the most outstanding books on the life of Western adventurer Wild Bill Hickok. Mr. Rosa, who lives in Ruislip, Middlesex, England, began his book on Hickok with the belief that his detachment from local U. S. influences might permit a more accurate assessment of Wild Bill.

Although both in his time and since, Wild Bill's reputation achieved the status of a legend, Mr. Rosa's documented evidence reduces Hickok's killings from a reputed "over a hundred" down to 12. Of these, even two are questionable. However, it was the fateful legend that finally cost Wild Bill his own life. Dared by every rough neck in the land to prove his gun-fighting prowess, he succumbed in 1876 to a saloon-brawl bullet through the head.

Born in 1837 in Illinois, James Butler Hickok ran away from home in his teens to seek adventure in the West. He served as a scout, detective, and spy during the Civil War, and later in Kansas he was a deputy U. S. Marshal. For a time he toured with Buffalo Bill's Wild West show, and at the end of his life, prospected for gold in South Dakota.

Barroom brawls played a great part in his life. It was in defense of a bartender hiding from a lynch-hungry mob that Hickok received the name "Wild Bill." Facing the angry men, he shot bullets over their heads until the crowd dispersed. In praise of this valiant action, a woman cheered him later during a vigilance committee meeting by shouting, "Good for you, Wild Bill." The name stuck, although it isn't definite that she hadn't confused James Hickok with someone named "Bill."

Although Wild Bill's foppish dress and long hair seemed effeminate to

men (at least one doubted that he was really a man), he was fatally attractive to women. Whether they attracted him in turn appears questionable. According to Wild Bill himself, his relationship with Indian Annie was platonic (perhaps he was being heroic in this statement). His greatly touted romance with the masculine Calamity Jane (whose gender is also questionable) appears more founded on rumor than fact, and his subsequent marriage to the colorful Madam Lake (11 years his senior) was one of short duration and rare co-habitation.

THEY CALLED HIM WILD BILL is a highly readable book illustrated with a number of excellent old photos. Published by the University of Oklahoma Press, it's hard-cover, 278 pages costs \$5.95.

MOORISH SPAIN

By Enrique Sordo

Brilliantly illustrated with colored photographs by Wim Swaan, this book is especially timely for desert dwellers whose architectural interests are currently following a Moorish trend.

Although more formal than traditional Spanish-American architecture common to the Southwest, Moorish architecture, with its covered porticos, interior patios, colorful tile, sparkling fountains, covered balconies and arched openings, lends itself equally well to desert living. Primary departures in style are noticed in the delicacy of Moorish pillars supporting key-hole arches, in arabesque and interlaced motifs worked in marble, alabaster and tile, and in vast reflection pools alongside exterior corridors.

In the ancient palaces of Moorish Spain, filigreed gates covered interior doors (usually those in harem chambers) and intimate patio-gardens nestled behind high walls. Dedicated poets, the Moors specialized in settings which encouraged both inner and outer repose. As one romantic prince wrote, "In Granada even the silence and solitude speak of love."

MOORISH SPAIN details the colorful history and architecture of Cordoba, Seville and Granada. It is not a book of modern architecture, but rather a beautiful appraisal of such art and architecture as still exists in

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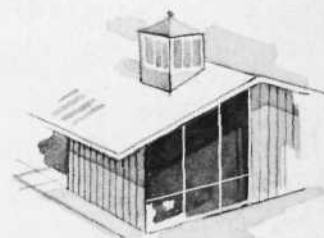
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New Books

these cities once ruled by Moors. Nevertheless, wall decorations, designs and architectural features from these Mosques and Moorish palaces are stimulating a definite trend today and, because the trend is in its infancy, will become more apparent in Southwest building scheduled for the next decade.

It is doubtful, however, that many desert homes will go in for the dove, falcon, duck, hen, cockerel and vulture motifs adorned with jewels which emitted water from their mouths to fill Moorish pools; or, ceilings and walls made of gold and multi-colored translucent marble blocks which, when the sun shone into the room, reflected on the walls and roof to produce a blinding effect.

Modern synthetic materials can economically imitate many a luxurious setting, but it's unlikely that even Palm Springs' fanciest will be able to reproduce the large pool filled with quicksilver enjoyed by Medina Azzahara which, when the Caliph wished to astonish guests, could be agitated by slaves until the hall flashed with its rays and those who gathered trembled because the quivering mercury caused the room to appear to revolve around an axis which followed the sun.

This beautiful, 223-page book was printed in Italy and is published by Crown Publishers, Inc., New York City. \$10.00.

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TOUR THE DIFFERENT WORLD OF UTAH

By D. James Cannon

Director Utah Tourist and Publicity Council

FOUR FACTORS in "The Different World of Utah" pose some fascinating problems in recreation development and promotion: 1) the state's magnificent and varied landscape; 2) a strategic geographic position; 3) a relatively small population of one million; and 4) almost 70% of its land owned by the federal government.

This combination adds up to millions of visitors who love what they see but who stay only a short time. Past inadequacies in facilities, access, and information services are rapidly being remedied as Utahns work together to meet the snowballing demand for recreational development amidst the colorful scenery and unique history.

At the Third Annual Utah Travel Institute on February 1, 1964, an exciting overview of 1964's travel and recreation picture was presented, and it is outlined here through the use of topical headings.

PUBLICITY. Though Utah's official state publicity agency is somewhat underfinanced when compared with other states, it has made notable progress during recent years in its program of national and regional advertising and in compiling a large variety of printed literature. Some of this literature is of a general promotional nature, designed to create an

interest in learning more about Utah; other items are designed to answer specific questions and to serve as detailed guides to various areas of the state. This literature is available on request (most items without charge) to out-of-state people writing the Utah Tourist & Publicity Council, Council Hall—State Capitol, Salt Lake City.

NATIONAL PARKS AND MONUMENTS. The National Park Service continues its Mission 66 program of improvement in Utah's two national parks and eight national monuments, as well as on Lake Powell. On Flaming Gorge Reservoir it has co-operated with Ashley National Forest in establishing a large number of boating, camping, and picnicking facilities.

During the past few years, new administration buildings and visitor centers have been opened at Zion and Bryce Canyon National Parks, Timpangos Cave, Arches, and Dinosaur National Monuments. Extensive improvements will be made in the near future at Natural Bridges, among others, and a new scenic drive will soon be under construction in Zion National Park, leading into the spectacular Kolob Canyons area from U. S. Highway 91 (Interstate 15), at a point near New Harmony.

Arches National Monument in 1963 saw the completion of a new sec-

tion of paved highway leading to the rugged Devil's Garden area, where a large new campground was also completed last year. In Dinosaur National Monument, many miles of paved highway have been completed or are in various stages of planning and construction, making easily accessible several viewpoints overlooking the incredibly beautiful canyons of Green and Yampa Rivers.

Six parking areas at major Bryce Canyon viewpoints were reconstructed and interpretive exhibits installed in 1963. At Zion National Park a new 210-site campground will be started in 1964 while 1963 in Zion saw trail improvements and other upgrading work.

The proposed Canyonlands National Park moved much closer to final realization in 1963 when Utahns resolved their varying opinions and joined to support a park bill which has passed the Senate and now awaits action in the House.

NATIONAL FORESTS. Utah's seven national forests combine a multitude of improvement activities under the Operation Outdoors program. Scores of camp and picnic areas in all parts of the state have been rehabilitated or expanded, and some new sites have been developed. Examples: Work on 28 sites in Logan Canyon (Cache National Forest); rehabilitation of six large areas on

Wasatch National Forest, which has the second highest use of any national forest in the nation; rebuilding of the Moon Lake access road on Ashley National Forest; a new water system at Pine Valley Campground and improvement of the road to Oak Grove Campground, Dixie National Forest. Enterprise Reservoir can now be reached by a good road, thanks to forest and county cooperation.

Of special note are the numerous camp and picnic areas which have been developed during the past year or two in the Flaming Gorge area by Ashley National Forest.

NATIONAL RECREATION AREAS. Developments at Lake Powell are discussed elsewhere in this issue, so little need be said here about this tremendous recreation area which promises eventually to host more visitors than any other attraction in Utah.

Though Lake Powell has received the major share of recent national and western publicity, another area that deserves much more recognition than it has had is the huge lake now backing up behind Flaming Gorge Dam on Green River. The shore of this great body of water—which will measure 91 miles in length when filled—is now being developed with marinas, campgrounds, and picnic areas by the National Park Service and Ashley National Forest.

Flaming Gorge Reservoir (its formal name has not yet been decided by Congress) is situated in terrain that could hardly differ more from that of Lake Powell. For much of its length it is located in a deep, narrow, steep-walled mountain gorge rimmed with dense forests; then it spreads out into broad valleys and extends far north into Wyoming along the shallow channel of Green River.

A number of ramps, campgrounds, and picnic spots already have been opened near the dam and in Lucerne Valley, where the lake widens out. The major developments can be reached over good paved highways from Vernal, in Utah, or from towns on U.S. 30 in Wyoming. 1964 promises a flood of boaters and other outdoor recreationists to this water playground.

STATE PARKS. Without much fanfare, the Utah State Park and Recreation Commission has acquired and is in process of planning development—or actually developing—22 choice recreational areas in Utah. Though handicapped by lack of funds, the commission has made re-

markable progress since its birth in 1957.

Some state parks—notably Pioneer Monument in Salt Lake City, Fieldhouse of Natural History in Vernal, and Old Capitol in Fillmore—have been visitor landmarks for years and need no introduction here. Others, such as Dead Horse Point, are widely known but are still thought of as rather remote and inaccessible.

At Dead Horse Point the commission has built an overlook shelter, protective fences, and a fine campground. There is hope for improvement of the access road this year, though it will be some time before a paved highway is completed. Snow Canyon in Dixie State Park has shelters and picnic facilities, as has Newspaper Rock at Indian Creek State Park. There is an excellent picnic development at quaint, historic Stagecoach Inn (Camp Floyd State Park), and the restored inn itself is planned to open in 1964. Brigham Young's Winter Home in St. George is open to the public; nearby, the old rock home of Jacob Hamblin in Santa Clara is being readied for dedication this year.

Boating ramps and other facilities have been installed at Bear Lake, Green River, Hyrum Lake, Minersville Reservoir, Palisade (Funk's) Lake, Scofield Reservoir, Steinaker Reservoir, and Piute Reservoir. Among these water areas the largest developments are at Bear Lake (enclosed marina, attractive overlook center, picnic facilities) and at Green River. Additional improvements will be made at all these areas and other state parks as funds permit.

So far, activities at the big Wasatch Mountain State Park have been limited in the main to planning, land acquisition, and development of a road system. However, a 17-unit picnic area is nearing completion and the park now has a 29-mile network of good forest roads. Plans are ultimately to make this area one of the nation's finest mountain recreation centers, with facilities for both summer and winter use.

BUREAU OF LAND MANAGEMENT. Almost half of Utah's land area is administered by the U. S. Bureau of Land Management, and many of the state's most remarkable natural attractions are on BLM land. Traditionally, BLM has not been considered a recreation agency; only recently has it entered this field.

For example, BLM has developed two campgrounds in the Henry Mountains, one on Calf Creek between Escalante and Boulder, one on

Hatch Point (reached by a new BLM road leading from U.S. 160 near LaSal Junction), one in Price Canyon, and one in the San Rafael Swell at the San Rafael River bridge. The Hatch Point area is of particular interest, since it opens up a spectacular Canyonlands overlook which was not previously accessible to passenger cars.

BLM is active, too, in protection of the Needles-Salt Creek section of proposed Canyonlands National Park. BLM personnel at Cave Spring now register, direct, and assist the hundreds of jeepsters and other adventurers who visit this wilderness area each year.

FISHING AND HUNTING. Mule deer hunting continues to be the most popular big-game sport in Utah, with the annual deer kill totaling more than 130,000 and ranking Utah among the top three states. As usual, thousands of hunters come from other states in the fall to bag their deer.

In the past, fishing has not usually attracted many out-of-staters to Utah except to the three southern lakes, (Navajo, Panguitch and Fish Lake) and to some of the northern mountain lakes. In the future, however, Flaming Gorge Reservoir and Lake Powell promise to reverse this picture; they will become two of the best inland fishing waters in the western United States. Utah's Fish and Game Department is working with Wyoming and Arizona in a large program of stocking these two huge lakes with trout and bass.

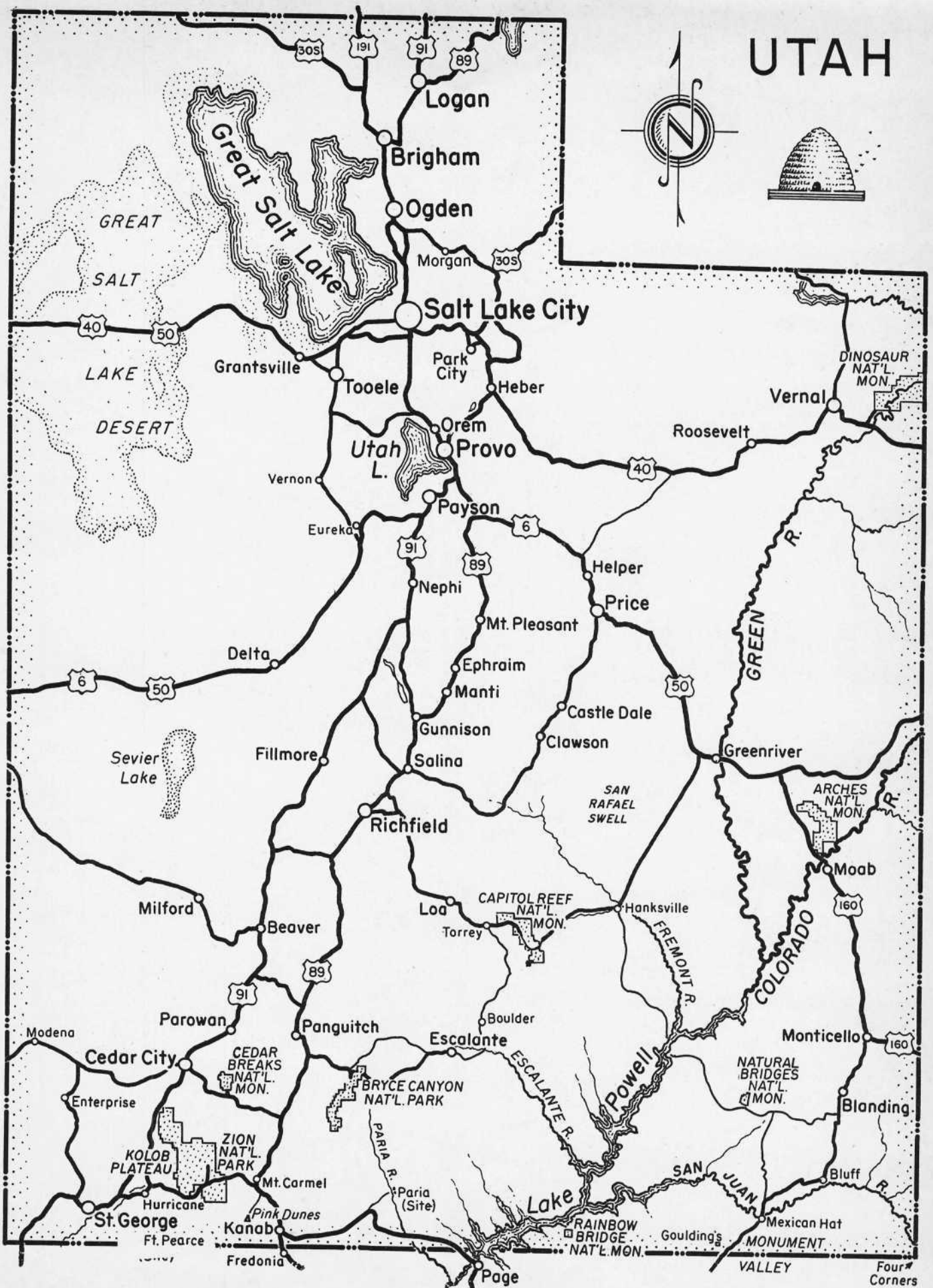
The Ute Indian Tribe, which owns more than a million acres of land in the vast Uintah Basin-Tavaputs Plateau region, has inaugurated a program of hosting big-game hunters and fishermen. The tribal reservation offers excellent fishing and, more importantly perhaps, some of the best deer hunting in the country, as well as bear, cougar, birds, and other game.

The State Fish and Game Department continues its program of maintaining and improving Utah's marshlands, which provide excellent bird shooting. Utah is also noted for its upland bird hunting.

GREAT SALT LAKE. Utah's inland sea is one of the wonders of the natural world, but for years it has been a disappointment to many visitors because of inadequate access and facilities. Only one resort now operates on the lake, but exciting new plans are revealed in another article in this issue.

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phur Company near Dead Horse Point, is State 279, a new award-winning paved highway which parallels the Colorado River through a magnificent red-rock canyon. The Utah Department of Highways, which built the road, has installed signs pointing to attractions such as ancient Indian ruins and writings; has built trails to nearby natural arches; and has developed a fine roadside park. As one of the most recent state road projects, State 279 signifies a new roadbuilding era that undoubtedly will have bonus recreational aspects.

Of special interest to vacationers is the fact that 1964 will witness completion of hard-surfacing on State 24 between U.S. 50-6 near Green River and U.S. 89 near Richfield. The final few miles of dirt road west of Hanksville will soon be paved, making this one of the most enjoyable scenic drives in Utah.

PRIVATE RECREATIONAL DEVELOPMENTS. One of the most important events of 1963, insofar as Utah's recreational picture is concerned, was the opening in December of the Treasure Mountains complex at Park City. Sponsored by United Park City Mines, with assisting loan finances from the Area Redevelopment Administration, this multimillion dollar project has many possible ramifications for the present and future. Along with Alta, Brighton, Wasatch Mountain State Park, and Wasatch National Forest, it is another major stage on the way toward almost complete recreational utilization of the heart of the Wasatch Mountains, which adjoin Utah's major population centers.

Other improvements in lifts, tows, and accommodations were made in 1963 at Alta, Brighton, Timp Haven, Snow Basin, and Beaver Mountain, which are Utah's major winter sports centers. At Bridal Veil Falls in Provo Canyon, site of the Skyride—a thrillingly steep gondola tramway—operators of the ride have constructed an upper terminal center perched on the edge of a cliff more than a thousand

feet above the canyon floor. The Skyride has already proved to be one of Utah's most popular visitor attractions, and the new development should make it even more so.

In southern Utah, between Cedar Breaks and Cedar City, private interests are planning to develop a large winter sports area appealing especially to southern Californians who are only a day's drive away by excellent highway.

GUIDES AND TOURS. One of the most noteworthy events having to do with guide and tour services was the inauguration in May, 1963 of the new Gray Line six-day tour through southern Utah and northern Arizona, beginning and ending in Salt Lake City. Somewhat of a pioneering venture by this firm of national reputation, the Canyonlands-Sleeping Rainbow tour includes visits to many of southern Utah's most outstanding natural wonders. It has already proven itself a very popular addition to the state's tour services.

Professional guides continue to adapt their offerings to changing conditions. For example, an overland guide who has operated hiking and horseback trips for some years in the Escalante region is now offering an unusual tour incorporating travel by truck, foot, horseback, boat, and airplane: that is, by vehicle to the Escalante canyons; then a two-day hike or horse-back ride; a day or two of boating on Lake Powell, disembarking at Rainbow Bridge; a 13-mile hike or ride to Rainbow Lodge; and an aerial flight back to Escalante.

This is one example of the many tour services available, including jeep trips into the Needles and Standing Rocks; adventure boating on Lake Powell, Green River, and Colorado River; station wagon tours through Monument Valley, San Juan River Valley, Capitol Reef, Circle Cliffs, etc. rapid-running through Cataract Canyon; pleasure boat cruising on the Colorado; and aerial flights over the Incredible Landscape.

For the traveler or recreationist who yearns for a truly different experience, Utah offers variety almost beyond description: from Bear Lake and Flaming Gorge on the north to Lake Powell on the south; from markers of the Pony Express trail on the west to Dinosaurland on the east; from snow crowned mountains to the sculptured earth of Canyonlands; and from tiny hamlets to bustling metropolitan areas.

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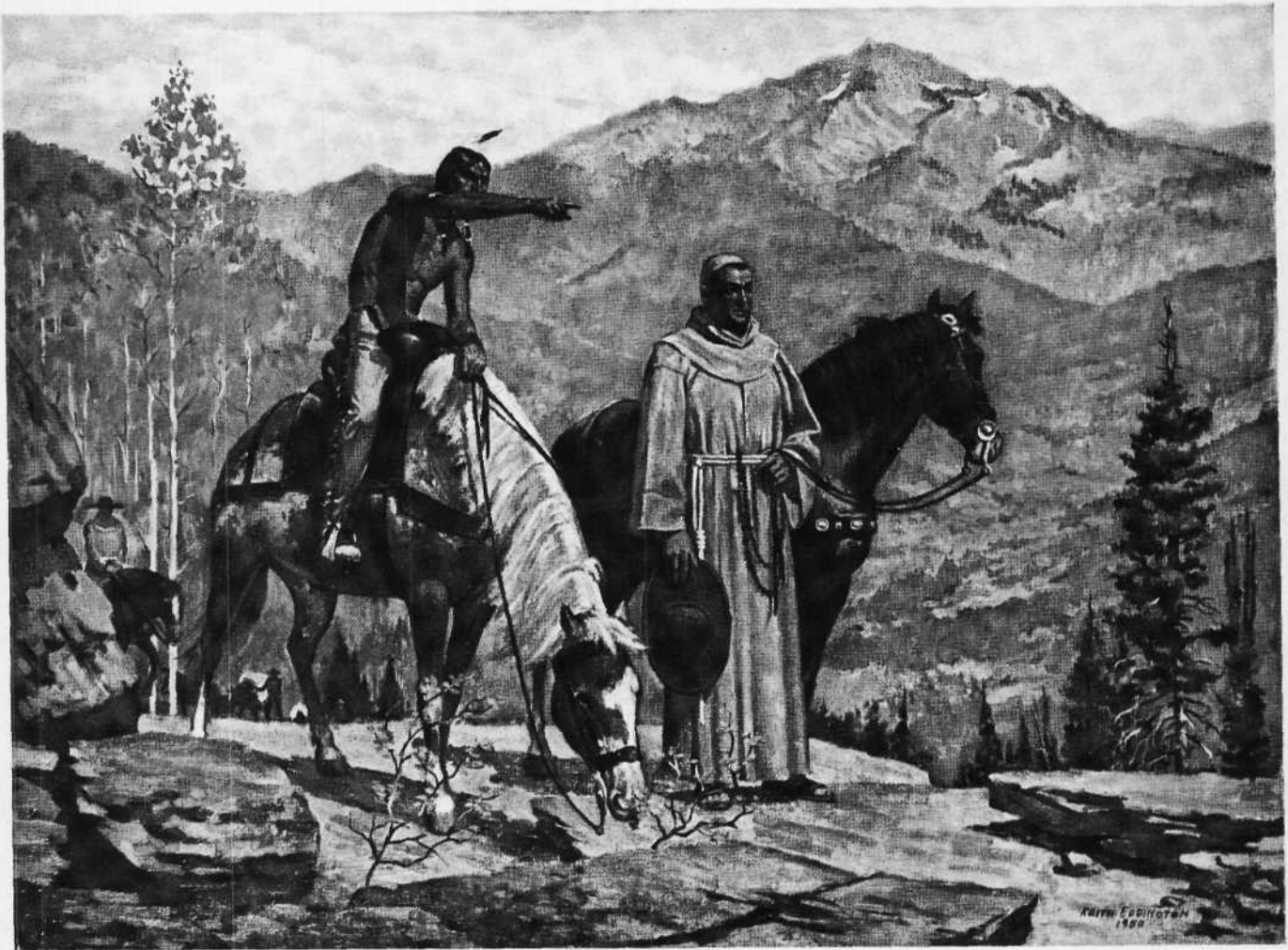
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MOUNTAIN MEN OF UTAH

By Dr. LeRoy R. Hafen

Brigham Young University



FATHER ESCALANTE DISCOVERS UTAH VALLEY

From oil painting by Keith Eddington.

THE NAME PROVO was put on the Utah map by a tragic event. This occurred back in the days when James Monroe was President of the United States, in 1824. In the fall of that year a famous Mountain Man, the explorer-fur trader Etienne Provost (pronounced Provo) met Chief Bad Lefthand and his band of Snake Indians on the most beautiful stream in central Utah.

The wily chief invited the white trappers to smoke the calumet of peace with his head men. But, said he, "it is contrary to our medicine to have metal near us while smoking." Provost, being an accommodating man, humored his new friends by ordering his men to set aside their arms while they joined the ceremonial circle. At a pre-arranged signal, the Indians pulled knives from their robes and began the slaughter.

Quick and athletic, Provost fought his way free along

with three or four other trappers. The rest of his 15-man party were massacred. Thereafter the river on which this tragedy occurred was given the white leader's name.

Despite his gullibility, Provost was already a veteran of the fur trade by 1824. Born in Canada of French parents about 1782, he had come early to St. Louis, the great emporium of the fur trade, to join the first trading expedition to the Rocky Mountains during the years 1815-17. Then occurred Provost's first misadventure as a trader.

Accused of intruding into Spanish territory, the men were arrested and their furs confiscated. After 48 days' imprisonment in Santa Fe, they were ordered to leave Spanish territory and forfeit all property except one horse apiece.

Later, in 1821, when Mexico achieved her independ-

ence from Spain, a new era opened and the Americans were welcomed as traders in New Mexico. One of the first to avail himself of the opportunity was Etienne Provost. He came to New Mexico, set up headquarters in Santa Fe, and began to lead trapper bands northward to the San Juan and Green Rivers and over the Wasatch Mountains into the Great Basin. Here it was that he had his tragic experience with the deceptive, metal-allergic Indians in 1824. After this incident, he re-crossed the mountains to operate in the Uinta Basin until 1825, when he returned to St. Louis to associate himself with the powerful American Fur Company.

Provost, though a famous and successful fur man, is hardly known in the city and region that bears his name. He wrote little or nothing about his adventures. Other historical characters have done better by the region. In fact, some early explorers wrote descriptions of the Utah Lake region that should cheer the Provo Chamber of Commerce.

First on the scene was the Escalante party, the first white men to see Utah Lake. In the historic year 1776, Father Silvestra Escalante and his nine compadres set out from Santa Fe to seek a route from the well established old settlements of New Mexico to the struggling new missions of California. After pioneering a route through the region of southwestern Colorado and eastern Utah of today, he crossed the Wasatch Mountains and followed down the creek and canyon that ever since have carried the name reminiscent of his party—Spanish Fork.

Escalante was so thrilled with the gorgeous mountain encircled valley and the mirror lake nestled in its center, that he wrote the first booster literature on the region. Lake Timpanogotzis (Utah Lake), he writes, "abounds in several kinds of good fish, geese, and beaver." The Indians here are *Come Pescados* (Fisheaters) who "gather in the plain grass seeds from which they make *atole* (a ground cereal), which they supplement by hunting hares, rabbits and fowl, of which there is a great abundance here . . . They speak the Yuta language." He tells of four rivers entering the lake, on each of which one or more pueblos (towns) could be established. Provo River, which he calls the San Antonio, has "meadows of good land, with opportunities for irrigation sufficient for two or even three good settlements." In this region are good and very abundant pastures . . . The climate here is good, . . . plentiful firewood and timber, sheltered places, water and pasturage for raising cattle and horses . . . The other lake (Great Salt Lake) with which this one communicates has water noxious and extremely salty . . . a person who moistens any part of his body with the water of the lake immediately feels much itching in the part that is wet."

The Ute Indians, having seen the horses ridden by Escalante and his companions, were eager to have such useful mounts. As a result, trade developed early between the New Mexican Spaniards and the Indians of the mountains. Documents in the Spanish archives tell of various bartering expeditions to the Ute country. The Spaniards brought horses, knives, and blankets to trade for buckskin, jerky, furs, and Indian slaves. A party of traders in 1813 met and traded with the great Ute Chief *Guasache* (Wasatch) who has given his name to the most important mountain range of the state.

In the 1820s many Anglo-Americans came into Utah. The first to reach Utah Valley, and possibly the first to ever see Great Salt Lake, was our friend Provost. Two years after his tragic experience, and exactly fifty years after Escalante made the first white entry into Utah, the

Spanish design to open a path to California was realized by Jedediah Smith.

This rifle and Bible toting Mountain Man, sometimes called the "knight in buckskin," completed the first journey from the central Rockies to California. He led his trappers along the east side of Utah Lake, followed parts of the Sevier, Virgin, and Colorado rivers, and finally reached Los Angeles.

Early next year another mountain trapper, Daniel Potts—only recently identified—visited the Utah Lake region. He it was who had first visited and wrote of the marvels of Yellowstone Park. Writing from "Sweet Water Lake (Bear Lake, Utah), July 8th, 1827—twenty years before the coming of the Mormons—he told of his trip to "Utaw Lake" in the preceding February: "It is plentifully supplied with fish, which form the principal subsistence of the Utaw tribe of Indians . . . On its banks were a number of buildings constructed of bull-rushes, and resembling muskrat houses. These we soon discovered to be wigwams in which the Indians remained during the stay of the ice . . . This is a most beautiful country. It is intersected by a number of transparent streams. The grass is at this time from six to twelve inches in height, and in full bloom."

Osborne Russell, another literate Mountain Man, came from Fort Hall (near present Pocatello, Idaho) south into Utah. He had Christmas dinner with a party of trappers with Indian wives at the site of Ogden in 1840. The guests sat on the ground with legs crossed. He writes: "And now for the dinner. The first dish that came on was a large tin pan 18 inches in diameter rounding full of stewed elk meat. The next dish was similar to the first heaped up with boiled deer meat . . . the third and fourth dishes were equal in size to the first, containing a boiled pudding prepared with dried fruit accompanied by 4 quarts of sauce made of the juice of sour berries and sugar. Then came the cakes followed by about six gallons of strong coffee already sweetened, with tin cups and pans to drink out of, large chips or pieces of bark supplying the places of plates. On being ready the butcher knives were drawn and the eating commenced at the word given by the land lady."

The following February he traveled south into Utah Valley. At the south end he came to Chief Want-a-Sheep's lodge and enjoyed some time in the Eutaw (Ute) Indian village. "I passed the time as pleasantly at this place as I ever did among Indians. In the daytime I rode about the valley hunting water fowl who rend the air at this season of the year with their cry and at night the old Chief would amuse me with traditionary tales mixed with the grossest superstition, some of which were not unlike the manners of Ancient Israelites."

John C. Fremont, sometimes called the "Pathfinder"—although he always had Mountain Men to pilot him—visited Utah Lake in late May, 1844. He had just completed his encirclement of the vast inland area in which he found no outlet to the sea, and so gave it the name "Great Basin." On May 24th he came to a stream he called "Timpan-ogo, signifying Rock River." This was Provo River of today. Of the nearby lake he wrote: "The Utahs resort to it for fish . . . the lake is bordered by a plain, where the soil is generally good and in greater part fertile . . . This would be an excellent locality for stock farms and would abundantly produce the ordinary grains."

Five years later the Mormons came into the beautiful valley and founded Fort Utah, which they soon re-named Provo. Ever since it has been a favorite locality, growing steadily in population and beauty. ///



Scratchy Fingers of Time

by Janice Beaty



TOP TO BOTTOM: CHECKERBOARD MESA WITH VERTICAL JOINTS CROSSED BY HORIZONTAL BEDDING LINES. NOT RIPPLE MARKS, BUT CROSSBEDDING EXPOSED AND WEATHERED IN USUAL MANNER. SCRATCHES CAUSED BY CROSSBEDDING IN ANCIENT SAND DUNES. VERTICAL JOINTS FILLED WITH A MATERIAL HARDER THAN SURROUNDING SANDSTONE LEFT CONSPICUOUS RIDGES.

GREAT PARALLEL slashes marred the blood-red cliffs. Crosswise, lengthwise and slanting, they zigged and zagged along the canyon walls as if here some colossal cat had sharpened its claws. Or so we imagined the day we gazed for the first time at the streaked cliffs of Zion Canyon National Park in southwest Utah.

Here the lines were straight as a music staff. There they were curved. Down the road a bit they crisscrossed like squares on a giant checkerboard. Everywhere we looked, sheer cliff faces formed drawing boards for monstrous scratchy fingers.

What in the world made them? We pooled our meager knowledge of geology and came up with . . .

Ice? Perhaps a long-lost glacier had gouged its way down Zion Canyon, scratching the vertical walls in the manner of Yosemite's. But no, glaciers had never invaded Utah's canyons.

Water? Could the tumbling Virgin River have scraped its own walls with the rocks carried from the canyon at every flood? Not in such uniform

lines. Even a powerful river could hardly design a checkerboard.

What, then? We hastened to the Visitor Center Museum for an explanation. It was all there. In films and diagrams and relief models, the remarkable story of Zion Canyon and its strangely marked cliffs unfolded.

Far back in the Middle Jurassic Period about 150 million years ago, the tale began. The region of southern Utah and northern Arizona was then a vast Sahara with wind-blown sands building giant dunes. Many must have reached more than 2000 feet from the bedrock below to their shifting peaks.

As the dunes rose up or crumbled away like waves before the wind, sand was deposited in long even layers, one on top of another, but always following the contour of the dune. When the dunes changed their shapes or direction, so did their parallel layers.

It seemed hard to believe that a pile of sand contained actual layers. But a cutaway of a real dune left no doubt in our minds. Now if that sand dune could be solidified just as it stood, and then sliced in two . . .

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we knew we would be looking at a replica of Zion's cliffs.

And so it happened. As the centuries rolled on, a vast sea crept inland, totally submerging the dunes . . . pressing them down and then binding them together with a limey cement. This terrific pressure over hundreds of years, plus the infiltration of a lime-iron binder, turned the sand to sandstone . . . Navajo Sandstone as it came to be called. One might almost call them petrified dunes.

The next step was uplifting. Starting from sea level about 13 million years ago (long after the sea had gone) the entire stone desert was gradually elevated . . . up to 8000 feet in places. As the massive plateau rose, faulting caused the sandstone to form innumerable cracks straight through the entire deposit from top to bottom. The immense stone blocks with their horizontal layers and vertical joints were now ready to be sliced in two.

All that remained was the tale of the Virgin River ripping its way through the cracked sandstone, carving out its steep-walled canyon. Flat slabs broke away at their joints, exposing smooth walls tattooed with the intricate tracery of cross bedding and joint lines . . . our mysterious scratches! We were looking at the inside of a solidified sand dune!

Still, it took a week of camping at the base of Red Arch Mountain to make us realize the Zion story was far from finished. We gazed up at the perpendicular walls with a feeling of security at first. Here was something permanent, unchanging. True, the Red Arch itself had been formed as recently as 1880 when a large section of wall fell away, burying an early settler's cornfield. But today . . . a thundering rumble interrupted our thoughts. From the base of a distant

cliff, a cloud of dust puffed up where a rock-fall had landed!

That evening at the campfire talk, a ranger told us how groundwater constantly leaches lime out of cracks, how pinyon pine roots wedge them ever farther part, and how winter ice expands the joints until another slice of wall gives way.

Next day we visited Checkerboard Mesa where water had etched out the joints of a white butte, marking out squares with the distinctive crossbedding lines. "A classic example of bedding planes cut by many vertical weathered joint cracks," they told us. Iron oxides colored most of Zion red, but here where they were lacking, the entire Mesa gleamed white.

Most joints were farther apart and less obvious than this, making cross-bedding the outstanding feature of the park. Even the earliest visitors were awed by the marks. Said C. E. Dutton in 1880:

"... But of all the features of this rock the most striking is the cross-bedding. It is hard to find a single rock-face which is not lined off with rich tracery produced by the action of weathering upon the cross-lamination. The massive cliff fronts are etched from summit to base with a filagree as intricate and delicate as frost-work."

Since Navajo Sandstone was the most conspicuous feature of the Utah-Arizona plateau country, we might have expected to see similar wall-scratchings everywhere. But they varied in style from place to place, we learned, and were locally absent.

Although scratchy fingers of cross-layering spice most of Zion's trails, those along the Zion-Mount Carmel Highway east of the mile-long tunnel best exemplify these walls grooved by earth-giants of yesterday, today and tomorrow. ///



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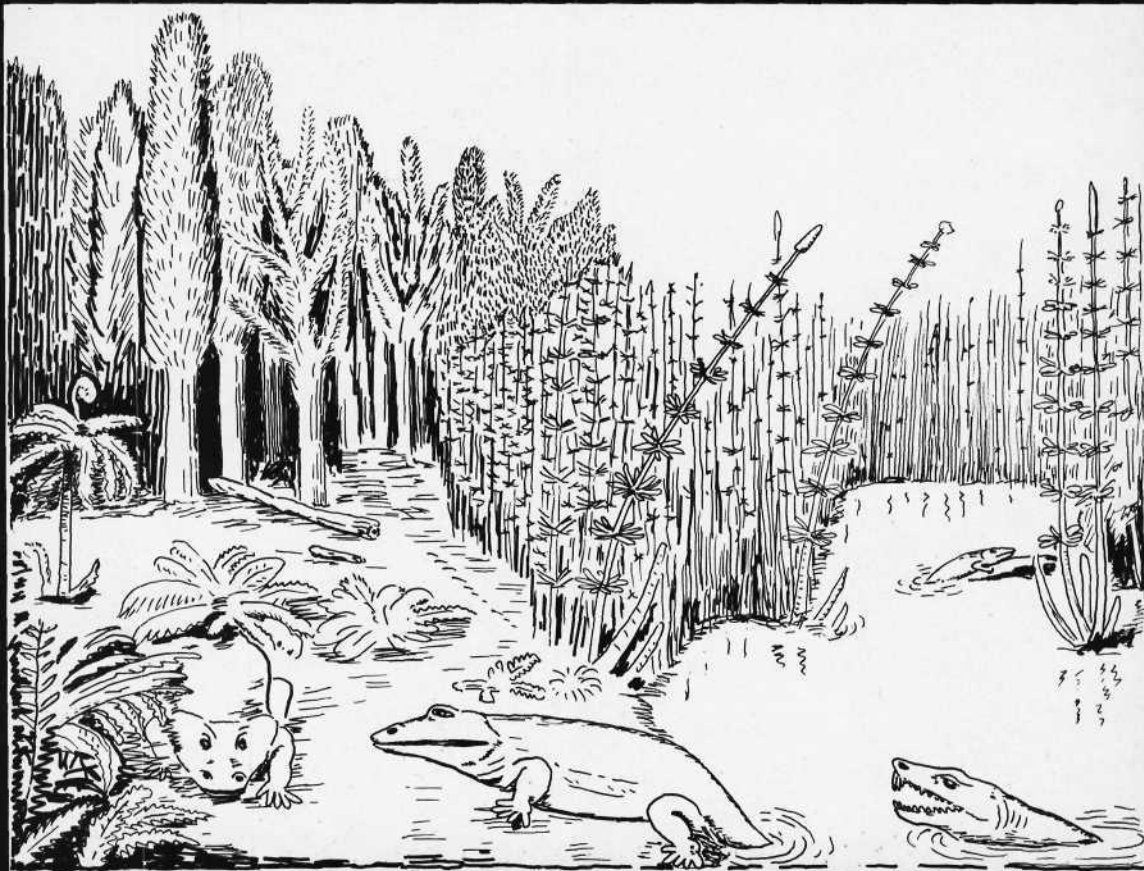
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By Robert R. Norman
and Larry Norman, Jr.



THE MOLARS OF MOAB

PERFECTLY PRESERVED and colorful teeth from several species of the earliest animals which inhabited land areas of the world were recently discovered at two large localities along the Colorado River in southeastern Utah. The writers found four teeth in about an hour, but within the two areas there are miles of unexplored and accessible outcropping exposures that have never been examined.

The teeth are from prehistoric amphibians which were the first animals to inhabit the land. These alligator-like animals represent the tran-

sition of life between the time when the entire earth was covered by water and the earliest emergence of land above sea level. The animals lived during the late Paleozoic era (or Pennsylvanian age) some 250 million years ago.

From a study of the intricately folded structure of the enamel on the teeth, the animals have been identified as being from a prominent amphibian group called the "Labyrinthodont." Due to the different types of teeth that have been found, it is evident that this group is represented

in these areas by several different species. The adult Labyrinthodont attained a length of approximately 15 feet and had a broad bony head four feet long.

Although it has long been known that the carnivorous amphibians fed on sea shells (invertebrate forms) and other marine life, the evidence for the existence of Labyrinthodont amphibians was not known in Utah prior to this decade when southeastern Utah was first explored for potash, uranium and oil.

In the transition period between

the "Age of Fishes," when there were no land masses, and the "Age of Reptiles," the slow-moving Labyrinthodont amphibians learned to breathe air and adapt to life on land. With their first tentative footsteps, they became the great-great-great ancestors of the dinosaurs, the birds, early forms of mammals, and ultimately—man.

With changes in climate and vegetation, the following rapid increase in the number of reptiles pushed the amphibians into a subordinate place. The early forms gradually disappeared from the strata and were replaced in subsequent rocks by representatives of a modern order.

The teeth vary in color from red to yellow and buff, to old ivory, and measure from one-half inch to about two inches in width. Rapid burial and gradual introduction of very fine-grained silica cement in solution is the best explanation for the amazing preservation of every original detail of the bone fibers.

During the period of amphibians

there were many oscillations of level between land and sea, causing repeated emergence and submergence of large and small islands within the southeastern Utah area. This is represented today in an alternation of thin grey limestone and red sandstone beds. At that time, a majority of the present western United States was under sea water which had direct connection with the oceans.

The subsequent evolutions of life on the planet have brought about the extinction of all amphibians, fish, and plant life which existed during this early period; and the several invasions of both sea and fresh waters ultimately resulted in depositing an approximate thickness of one mile of sediments above the late Paleozoic beds.

The geologically recent Miocene upheavals resulted in the upthrust of the Rocky Mountains, and the general region of this upper Grand Canyon region was pushed up by internal pressure from the earth's core. The

surface of the tableland was cracked and the cycle of erosion by wind and the Colorado River exposed approximately 1800 feet of mostly red sandstones and shales below the newly created Dead Horse State Park. Under the impact of the sudden intense storms, which still characterize the area, cracks deepened into canyons. Earlier sedimentary deposits were washed and blown away until ancient Pennsylvanian rock was exposed—the rock which represents the time when amphibians were the kings of all life on earth.

Teeth from the amphibians, and the more common marine shells, are found within the lower 200-foot exposure of alternating limestone and sandstone beds. No digging is necessary, although a rock hammer is often handy. Many of the fossils are loose at the surface of the limestone benches while others are exposed in outcroppings of the gray limestone and within layers of the adjacent red sandstone.

The thin limestone beds are indicative of several invasions of shallow salty seas and the adjacent interbedded dark red sandstones represent the near-land fresh water deposits. The contrasting contacts between the limestone and sandstone beds generally represent dry land, or shore-line conditions, when a majority of the amphibians lived; hence the location of a greater number of fossils.

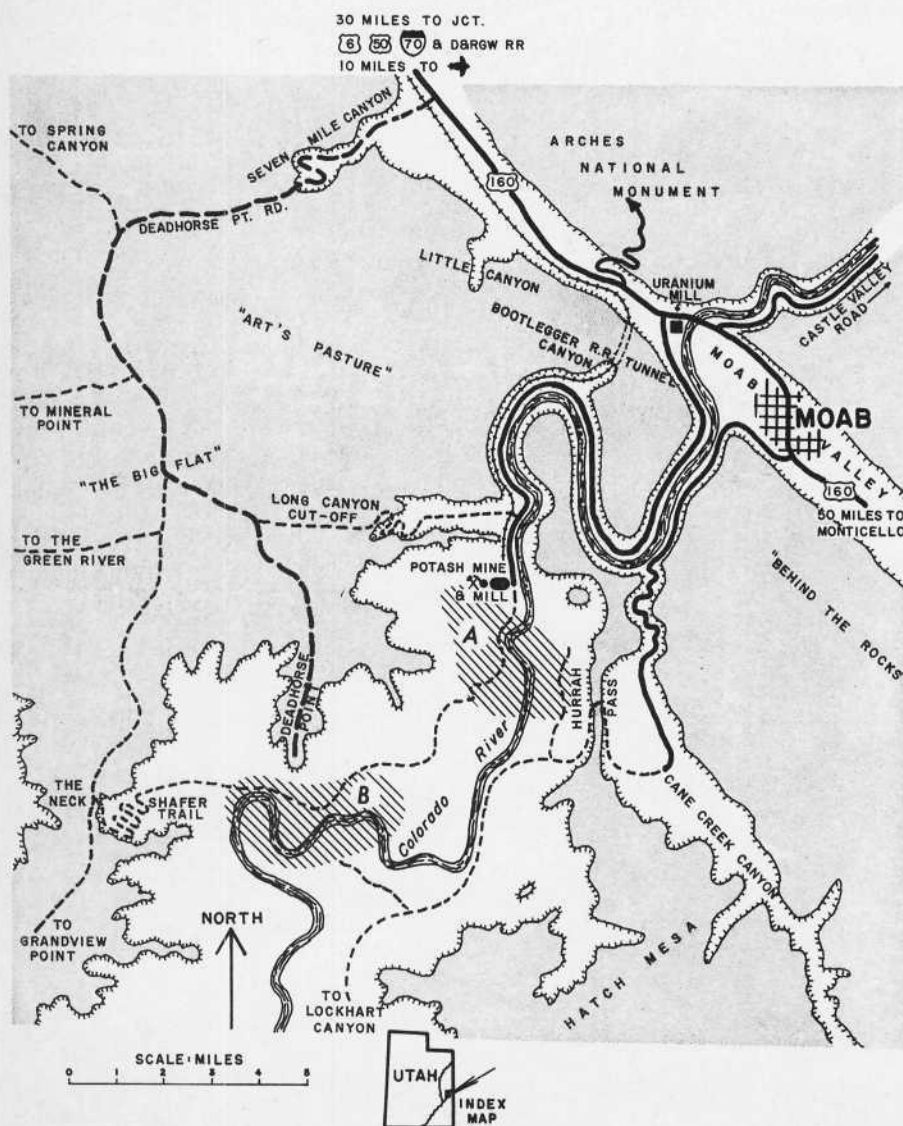
Due to the large area extent of the sites and the fairly rugged terrain, it wasn't until recently that access roads were constructed to permit general exploration. Headquarters for an expedition would naturally be Moab, "Heart of the Canyonlands," in southeastern Utah.

Daily, on a regular schedule during spring and summer months, jet boats to both areas (A and B in map) are available at a reasonable cost. The boat docks and waits on large sandy beaches while members of the expedition explore canyon rims and side canyons.

The map shows other access roads into the area, and the Moab Chamber of Commerce office will provide current data on their condition, schedules for the jet boats and jeep tours, supplies needed away from civilization, the approximate time to reach each locality, the temperature at various times of the day, and other questions which tourists may have.

Here is a way to vacation while at the same time learn first hand of man's earliest forerunners on land.

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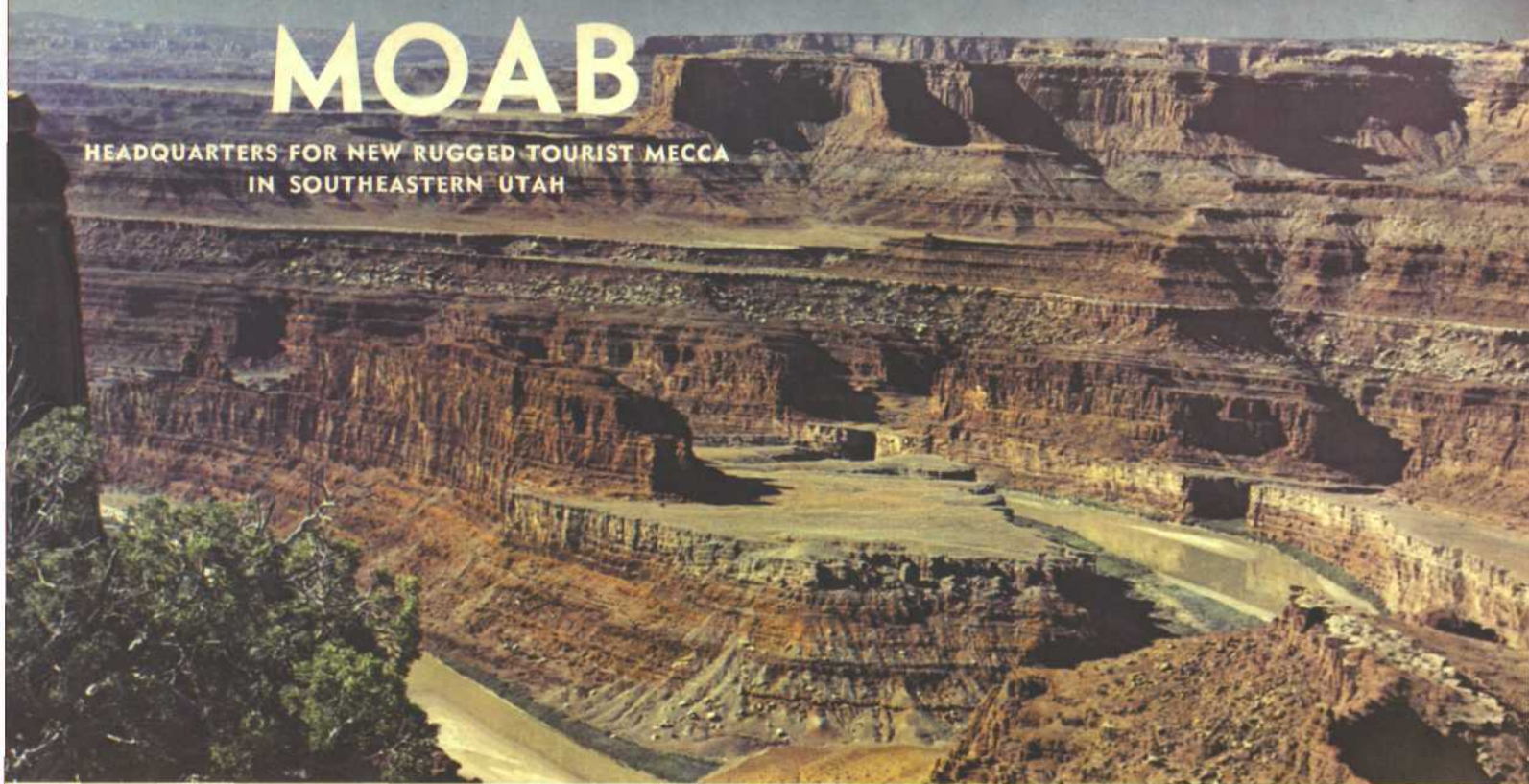


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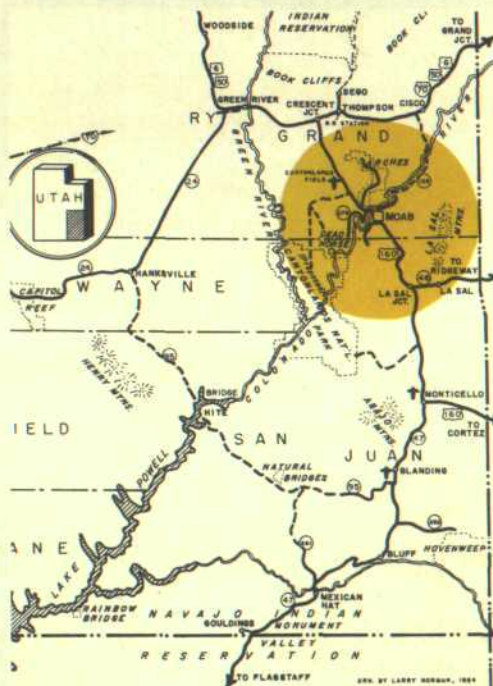
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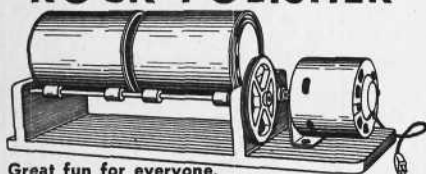
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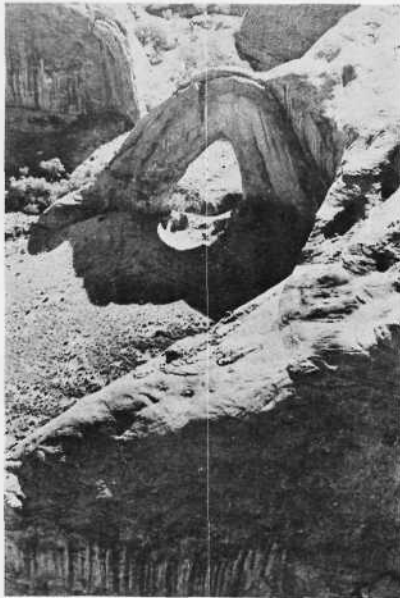
BOULDER, COLORADO

Lake Powell

by
*Air
Land
and
Water*

By Jack Pepper

Publisher, *Desert Magazine*

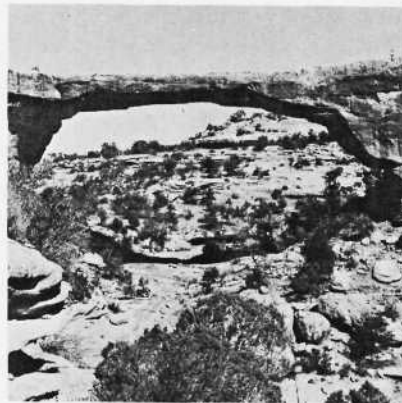


ONE OF the most phenomenal changes ever wrought by man on nature's landscape is taking place in the southern part of Utah where the waters of the once untamed Colorado River are backing up behind Glen Canyon Dam to form one of the largest lakes in the world.

Since the gates of the 580-foot dam were closed in January, 1963, the water is gradually rising and will eventually create a body of water, 186 miles long. The West's newest and largest aquatic recreation area has been named Lake Powell, in honor of Major John Wesley Powell who led the first expedition of whitemen down the Colorado River in 1869.

The \$325,000,000 dam, lauded by the American Society of Civil Engineers as the "Outstanding Civil Engineering Achievement of 1964" can be seen and photographed from the massive 1,271-foot bridge paralleling the dam and forming a passage 700 feet above the Colorado for U.S. Highway 89. Nearby is the modern city of Page, Arizona, former construction headquarters for the dam, and now a thriving city offering every kind of facility for visitors and sportsmen.

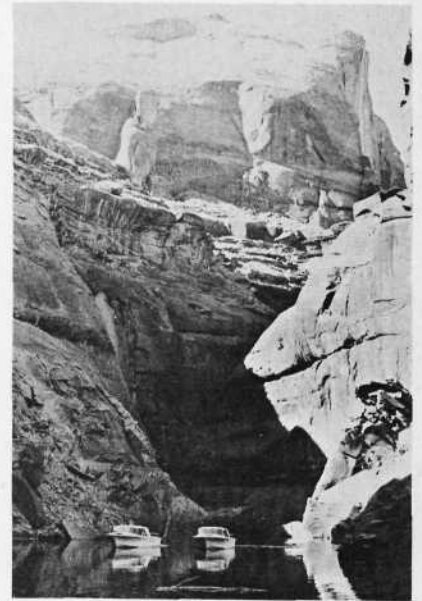
Although the lake will have 1,800 miles of shore line, the spectacularly beautiful but extremely rugged country prohibits numerous access roads



to the shoreline. Utilizing and improving existing roads and building others, the National Park Service, has designated eight launching sites.

To date, the Park Service, in my opinion, has wisely granted concessions to operate these launching areas to former river guides, all of whom have had years of experience on the Colorado and in the surrounding areas. Although not all of the former river guides has asked for launching concessions, the majority is still engaged in the business of guiding visitors by boat, 4-wheel drive, airplane and horseback through the spectacular scenery of southern Utah. I can personally vouch for those whose tours and facilities are listed in *DESERT Magazine*.

To date concessions have been granted to Art Greene's Canyon Tours at Wahweap, near Page, Arizona; Frank Wright's Lake Powell Ferry Service at Hall's Crossing, and Gaylord Staveley's Canyoneers, Inc. at



Castle Butte, near Hite. THESE ARE THE ONLY PLACES WHERE GASOLINE AND SUPPLIES ARE AVAILABLE ON THE LAKE SO BOATERS SHOULD MAKE CERTAIN THEY HAVE SUFFICIENT SUPPLIES TO MAKE PLANNED TRIPS. Other launching sites will be at Hole-in-the-Rock, Bullfrog, Oil Seep Bar and Warm Creek, and limited gasoline supplies will eventually be at the entrance to Rainbow Natural Bridge, although it is unlikely any of these will be in operation until late summer or next spring. Another concession is being negotiated at Lee's Ferry below the dam.

Others will be granted as the waters of Lake Powell reach areas where the National Park Service, in its well-planned overall program, has located facilities. For late information on these launching facilities write to the Page, Arizona, Chamber of Commerce, the Glen Canyon National Recreation Area, Page, Arizona or check with the guides listed in *DESERT Magazine*.

All of the latter offer interesting and varied tours, not only on Lake Powell itself but into the back country areas where you will be literally overcome with the ever-changing brilliant colored landscape, Indian ruins, semiprecious rocks and stones, natural bridges and always the unexpected around the next bend.

There are three ways to see this area: by air, by land and by water. A combination of all three gives you the complete picture, although each is a complete trip in itself. I recently was the guest of three men who have formed a novel package called "Triangle Tour" whereby you can combine all three.

Leaving my car at Page, Arizona, I was flown by Royce Knight, owner of Page Aviation, to Mexican Hat, Utah, a picturesque tourist town on the San Juan River.

The hour flight from Page to Mexican Hat took us over some of the most spectacular land I have ever seen. Only from the air can one comprehend the vastness of this area, many parts of which remain completely unexplored by white man. And only from the air can one get the true picture of how the deep blue rising waters of the Colorado, like the tentacles of an octopus, are creeping over the vermillion colored land to form Lake Powell. An excellent pilot, Royce banked so I could get pictures of the many natural bridges enroute to Mexican Hat.

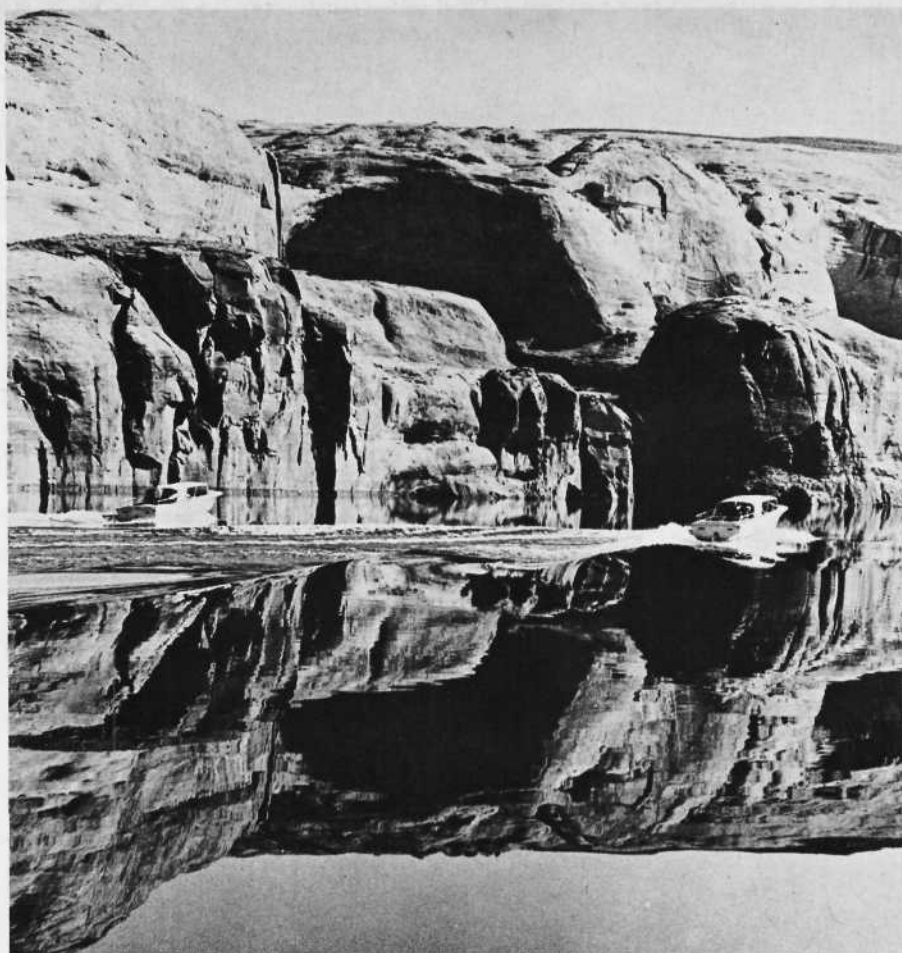
I was met at the airfield by Jim Hunt, owner and operator of the San Juan Trading Post. Jim and his brother, Emery, grew up in the Monument Valley country and are two of the few white men who can speak the Navajo language. That night I stayed at Jim's comfortable motel, after having a good meal and stocking up on film from his trading post.

The following morning we met at the headquarters of Gaylord Staveley, former river-runner who now operates the National Park Service concession at Hite, under Canyoneers, Incorporated. Helping Gay on our trip was his attractive wife, Joan, daughter of Norman Nevills, one of the pioneer river-runners whose name is synonymous with the once wild Colorado. Joan rode the rapids before she could walk.

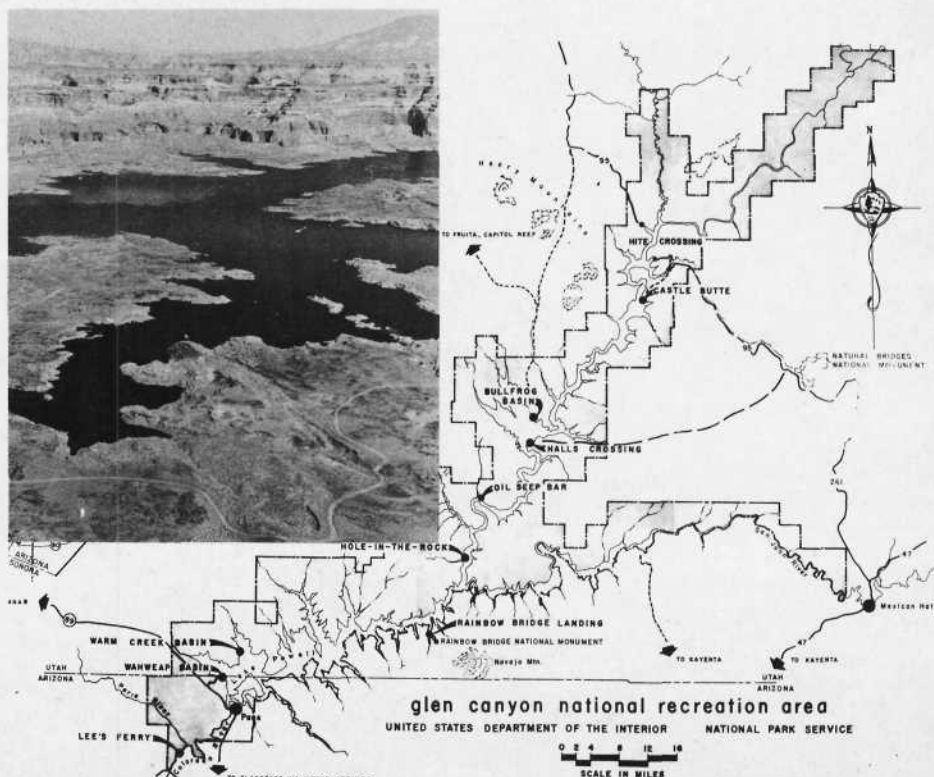
Others on our three-day trip were S. A. "Andy" Anderson, Salt Lake City, Traffic Manager of Gray Line Tours, who conducts tours throughout the west; Dr. and Mrs. Ralph Netzley, Pasadena; Dr. and Mrs. Leland Hunnicutt, Pasadena; and Dr. Walter J. Stevens, Grand Junction, Colorado. Although there was such an array of medical talent, we didn't even stub a toe during the trip.

Since the water was not yet up to Hite, we journeyed by 4-wheel drive to Hall's Crossing, now operated under a National Park concession by

(Continued on Page 45)



PILOTED BY GAY AND JOAN STAVELEY TWO MOTOR BOATS CARRY TOURISTS PAST BRILLIANT VERMILLION CLIFFS TO RAINBOW NATURAL BRIDGE, (OPPOSITE PAGE) ONE OF THE LARGEST AND MOST SPECTACULAR OF NATURE'S FORMATIONS. ONCE ONLY REACHED BY OVERNIGHT PACK TRIPS, RAINBOW IS NOW WITHIN EASY HIKING DISTANCE OF LAKE POWELL. INSERT, LIKE A GIANT OCTOPUS, WATERS OF THE COLORADO SPREAD OVER THE LAND TO FORM NEW LAKE POWELL.





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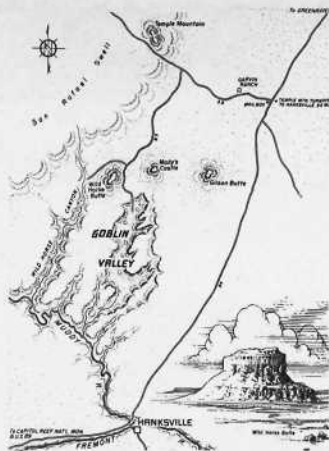
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PHANTOMS' HALL OF FAME

I HAVE A theory. Admittedly, it lacks sufficient empirical evidence to be accepted by those whose brains operate with the precision of electronic computers. But, I think it will appeal to those who use a rabbit's-foot key-chain (after all, such a key-chain is as practical as any other), or who save the wishbones of roast fowls (anyone with an esthetic sense should recognize the beauty of their symmetry).

Have you ever wondered what happens to aged goblins? Since they are supernatural it is obvious that they do not die; in fact, there is not much of a chance that they even fade away, as long as a few staunch believers remain among mankind. Are they, then, doomed to an eternity of work without respite through one millenium after another with nothing tangible to show for their efforts?

Basically my theory is this: When any goblin has reached a specified degree of proficiency in frightening mankind, or in creating unusual types of mischief, he may apply to a Phantom Committee of Corporeal Awards which will review his application, along with his record of performance. If his accomplishments are deemed worthy of honor, orders are given to Nature's sculptors to create his likeness in stone.

What proof do I have to substantiate my theory? The very best—the effigies themselves, hundreds of them, concentrated mainly in an area perhaps three-quarters of a mile square.

Intersecting Utah Highway 24, about 35 miles from Green River to the north and 25 miles from Hanksville to the south, is a side road leading westward toward the upthrust strata of the San Rafael Swell. The unique feature of this desert side road

is that it is hard-surfaced for some six miles, a luxury for which we may thank the uranium excitement of several years ago.

Unless highway vandals have been at work recently, there will be a sign, "Goblin Valley," pointing toward the west at Temple Junction. Five miles up the road is another sign (actually three of them at the last count) indicating that Goblin Valley is approximately eight miles to the south. This road is dirt, but generally passable to ordinary cars.

Goblin Valley was scarcely known, even among local people, until a few years ago. Then it received a flurry of publicity, and officials caused a primitive road to be pushed to the valley. However, the road builders encountered a stretch of rock through which it seemed impossible to continue without prohibitive expense, so the road stopped short of the actual valley. A confusing array of gullies and ridges misled many visitors into thinking, when they viewed the Three Sisters or other formations nearby, they were in Goblin Valley before they even reached the main attraction. A year or two ago the road was pushed forward until it reached the rim of the valley itself. Now there is no necessity for a cross-country hike from car to the valley, nor is it likely that anyone should be unable to locate the right place.

When I last visited the valley—a few days ago—I took along my oldest son Kenny (14) and a young friend, Bevan Nelson (11). I've been on several expeditions with these two characters and they are definitely not the type to rave over scenery. For example, when we floated through Glen Canyon two years ago they thought less of its grandeur than



By Keith Wright

they did of chasing lizards. But when we stopped on the rim of Goblin Valley one of them said, "Wow, look at those crazy things," and they were headed down the trail on a dead run.

It seemed to me that they didn't show proper respect for the place, galloping at such a pace and emitting whoops and shrieks. I suppose it was because they were unaware of the area's true nature. I, of course, walked slowly, silently, and respectfully from one image to another, fully realizing that we were in the Valhalla of the Goblins.

And truly, if my theory holds up, many goblins have earned this privilege of preservation in tangible form. There are single goblins, goblins in groups, goblins in the form of animals, goblins in the form of people, goblins staring at the visitors, goblins staring at each other, little goblins, big goblins, goblins standing high on the far rim looking superciliously upon subordinates below, goblins with bases of rocks, goblins (whose claim to fame will be comparatively fleeting) with bases of earth, goblins of infinite sizes and shapes.

If you visit this strange valley, take plenty of film and be prepared to spend several hours of happy shooting. Every step you take and every way you turn will offer new subjects.

As for us—well, it was late in the afternoon when we got there, so I didn't get as many pictures as I would have liked. You see, I wanted to be many miles away when night fell. It is not that I'm superstitious, mind you, but if the prototypes of those effigies *should* show up after dark, there would be enough of them to stir up simultaneously every kind of hell-raising ever invented! ///

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KOLOB

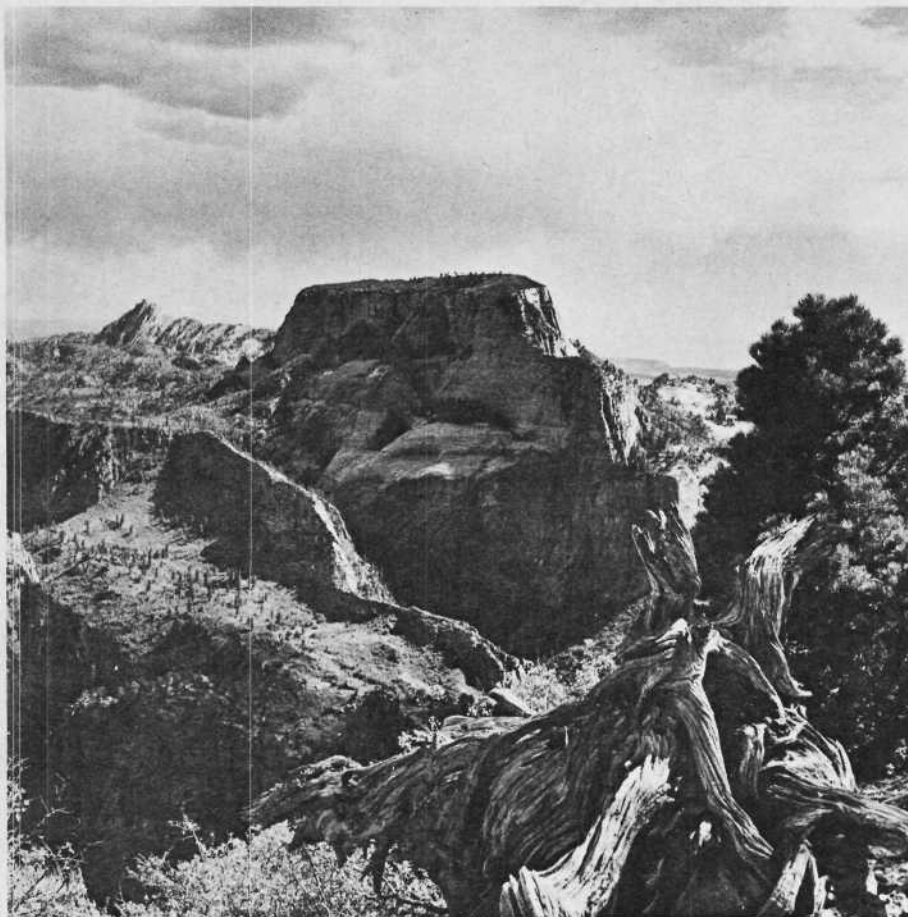
Next To The Throne Of God

by Frank Jensen

IN THE mid-1950s two amateur climbers, Fred D. Ayres and A. E. Cresswell, made the first successful ascent of one of the highest natural arches in the world. This immense arch, which towers more than 330 feet above the floor of a narrow box canyon in southwestern Utah's Zion National Park, exceeds even Rainbow Bridge in size. The climb attracted only local attention, and little wonder, for the arch is located in a semi primitive and seldom traveled section of the park known as Kolob (a word from Mormon cosmology that translates literally "next to the throne of God").

Kolob was formed approximately 13 million years ago when Mother Nature took a tuck in her crustal apron. The resulting cataclysm raised sedimentary layers several thousand feet, exposing a wall of sandstone that even after millions of years of erosion still measures a quarter of a mile in height.

Captain C. E. Dutton, pioneer geologist and member of one of the first U. S. Geological Survey teams to map the Zion area, was so impressed by the Kolob that he wrote: "It is a veritable wonderland. If we descend to it we shall



GREGORY BUTTE, AN ISLAND IN THE SKY, RISES 2000 FEET ABOVE LA VERKIN CREEK. RIGHT: KOLOB ARCH MEASURES 330 FEET HIGH, 310 FEET WIDE, AND STANDS 80 FEET FROM THE WALL OF THE CANYON. IT EXCEEDS RAINBOW BRIDGE IN SIZE.

perceive numberless rock-forms of nameless shapes, but often grotesque and ludicrous, starting up from the earth as isolated freaks of carving or standing in clusters and rows along the white walls of sandstone . . . the land here is full of comedy. It is a singular display of Nature's art mingled with nonsense."

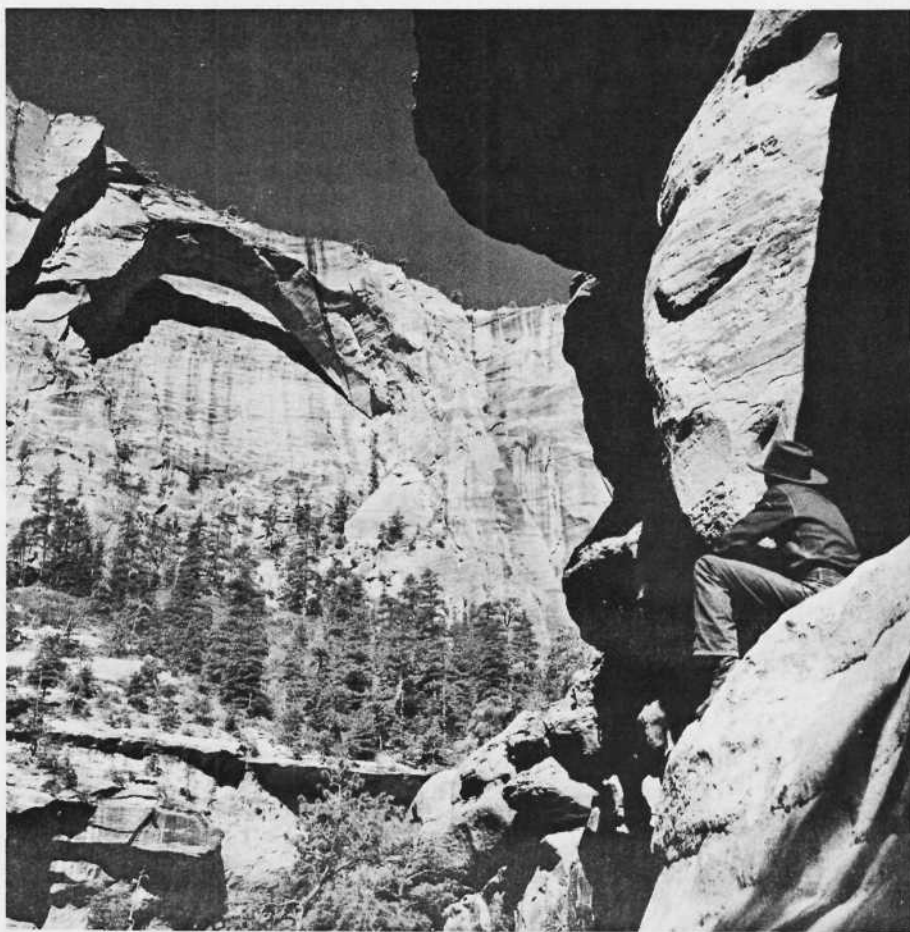
In 1937 approximately 200,000 acres of Kolob's isolated mesas and deep, cathedral-like canyons were set aside as a National Monument. Some twenty years later the area was incorporated into Zion National Park.

The Kolob is actually part of the same uplift that formed Zion Canyon and it tells the same geologic story. Its narrow, box canyons were carved by lesser tributaries of the Virgin River (the master sculptor of the Zion region) and its arches, alcoves and caves are the same as those found in the main canyon. If a distinction is to be made, it is in the coloring of the rocks which, in Kolob, vary from faded salmon to brilliant red, depending on the time of day.

The most prominent part of the Kolob—the Finger Canyons—may be seen from the ranching and farming village of New Harmony, some 18 miles south of Cedar City and west of Interstate Highway 15. From here, three promontories, Tucupit Point, Paria Point, and Beatty Point appear to have been thrust upward from the desert floor like the knuckles of a gigantic fist. The shadowed areas lying between the promontories are the three forks of Taylor Creek with eroded canyons 1600 feet deep.

Few motorists who travel between St. George and Cedar City ever see the Finger Canyons. They are screened by an intervening uplift that is part of the Hurricane Cliffs. The trail near New Harmony marking the entrance into Kolob is equally obscure and it may require local inquiry to find it. However, it is worth the effort and a short hike in and out of the Finger Canyons may be made in less than half a day.

From its origin near the junction of Taylor Creek and Interstate 15, the trail angles upward along the face of eroded Hurricane Fault. A quarter of a mile from the highway, the first promontory, Tucupit Point, rises into view and the sight is nearly as impres-



sive as that of the entire Finger Canyon section from New Harmony. The intrepid hiker who follows the middle fork of Taylor Creek to its source will, after a three or four mile walk, find himself in a narrow defile hemmed in by overpowering walls of sandstone. Near the head of the canyon the sky slips through a slit overhead and progress is impeded, until finally halted by huge tumbled boulders.

The Finger Canyons represent only a small part of Kolob. The same trail that parallels Taylor Creek forks to the south about a mile from the highway and begins its ascent to the top of Lee Pass, a tough five-mile hike from the highway, which offers an unequalled panoramic view of the region. Promontories of Finger Canyon lies to the north, while to the south the rugged features of Timber Top Mesa and Shuntuvi Point are etched against the sky. Lee Pass, incidentally, was named for John D. Lee of the infamous Mountain Meadow Massacre who used Kolob as a hiding place.

The geography of the remaining section of the Kolob is as rugged as it is remarkable. Most of its canyons and high mesas were sculptured by La Verkin Creek, the principal drainage to the southwest. Its most prominent features are Timber Top Mesa, Gregory Butte, (named for Herbert E. Gregory, renowned geologist of the southwest), Kolob Arch, and Hop Valley, a sand filled canyon dammed by an ancient landslide.

Anyone contemplating a trip into Kolob should prepare to pack in. The 18 miles or more of trail that bisect the Kolob may be covered on horseback in a single day (this writer has done it), but it is a poor way to see this remarkable country as it leaves no time to explore side canyons. If you are afoot, the best approach is from the Lamoreaux Ranch near the head of Hop Valley, which may be reached via a back country road from Virgin, Utah. It is advisable to check in with the Zion Na-

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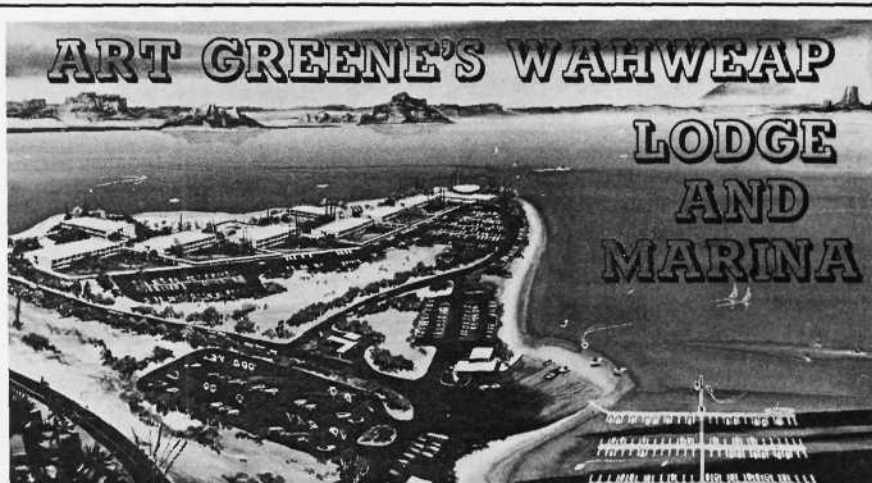
Moab, Utah

Call 253-9741

tional Park Headquarters for information and detailed directions.

The Park Service has in the mill plans for partial development of the Kolob under its Mission 66 program and funds are appropriated for a road following the route of the trail

from Interstate 15 to the top of Lee Pass. Construction of the first section is scheduled for 1964 and by 1966 the Kolob will be opened to a half million or more visitors a year, rather than the handful now familiar with its wonders. ///



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FORT PEARCE



EAST WALL AS IT LOOKS TODAY.

By Cloyd Sorensen

IF I WERE to suddenly receive notice that I had won a vacation to any place of my choice in the United States, I would have no hesitation deciding where it would be. Expenses would be minimal and no luxurious airline necessary. I would visit the warm, friendly city of St. George in southern Utah. Here, I have found, it doesn't take a lot of cash to enjoy colorful scenery, an ideal climate, natural beauty and interesting, hospitable people. Although exciting country lies in all directions from this hub in southwestern Utah, a good part of my vacation would be spent exploring the ruins of old Fort Pearce.

The first time I made a trek to this old Mormon fort, I was escorted by a newly made friend, Jack Seegmiller, who owns a St. George service station. I had seen the fort marked on a map and was curious about it. Asking questions, searching through library books and even writing the Utah Historical Society soon told me that there was little known of its history and even less published. I stopped at Jack's service station to ask directions. He took one look at my low-slung automobile, grinned and said, "I'd better show ya." That

was the beginning of a long and interesting friendship with one of southern Utah's natives.

We climbed into Jack's pickup and headed south of town on a paved road. As we crossed an iron bridge spanning the Virgin River, Jack told me how Mormon pioneers tried to tame the river to irrigate cotton and sugarcane crops in their attempt for an independent economy. At the river we turned east, traveling to the end of the pavement, and then continuing on a trail that crossed golden sand dunes and bumped over the ledges and washouts of color-splashed Warner Valley. After leaving the main trail with a hard right into a gravelly arroyo, in less than a half mile we spun up over a steep dirt bank and there was old Fort Pearce!

Simultaneously I experienced diverse emotions. I was surprised and disappointed to find the fort not an expansive structure that I had imagined, but rather a small, tightly constructed stone building. I was amazed at its state of preservation. Only part of the east wall crumbled into a pile of brown rocks. Rifle portholes were conveniently placed in all of the walls and on each end, in opposite corners, were two unique appendages that Jack said allowed only two men, one in each square appendage, a complete view around the fortress.

Today old Fort Pearce has been re-

stored. The fallen east wall is rebuilt with a door opening. However, where I believe the original door was set, there is now a crude fireplace. Other than this limited reconstruction, the old pioneer fort remains as it was over 90 years ago. No wood was used in its construction, thus preventing Indians from burning it, and as far as anyone knows, construction stopped with the walls and the fort never bore a roof.

In 1866 Brigham Young directed the pioneers in the Virgin Valley to colonize in what is now Arizona. A trail was proposed to cross the treacherous Colorado at Pierce's Ferry, the only possible crossing in 200 miles of twisting canyon, and Fort Pearce was ordered to provide a way-station along the route. High on a mesa overlooking Fort Pearce Wash and Spring and within a few hundred yards of the present Arizona line, the site commanded the only dependable water for miles. Work began on December 4, 1866 and the fort was nearly completed when the proposed route via Pierce's Ferry proved too hazardous, even for the rugged Mormons. Thus the plan was abandoned and work stopped on Old Fort Pearce.

Later, however, the fort was put to good use as a rest and watering place for teamsters and weary oxen who hauled giant timbers from Mt. Trumbull, 80 miles to the south, to build the St. George Temple.



PIONEER'S NAME AND DATE FOUND UNDER LEDGE OF WASH.

Desert's

trip of the
month



INDIAN GRINDING HOLE BELOW FORT.

When crops in the Utah Dixie Mission began to flourish, the settlers' livestock also increased. With few fences to protect them, the crops provided a tempting dish to the unrestrained stock. As a solution, pioneers formed a common herd which they ranged in Warner Valley far from the crops. Here, when Indians caused trouble, herdsmen drove their livestock into the high rock corrals immediately below Fort Pearce and from the command of the fortress, two men, using the unique opposite appendages, easily protected themselves and their herd from the thievery of poorly armed Paiutes.

A visit to old Fort Pearce is my retreat from power lines, telephones, modern highways and all the other things that represent our civilized and hectic world. Like a narcotic, this peaceful, colorful valley induces tranquility and reminiscence of days when a man was a man living by his wits and ingenuity; when Indian bands camped around Fort Pearce Spring; and when Father Escalante, searching for a safe route to California from Santa Fe, found his way into Warner Valley. Here Escalante and his small party watered and pastured their animals and, except for two little cakes of chocolate, completely exhausted their supplies. Escalante, in his journal, called this place San Conulo or Arroyo del Taray. He wrote "because here there



PETRIFIED LOG MAKES ROCKHOUND GRIN.

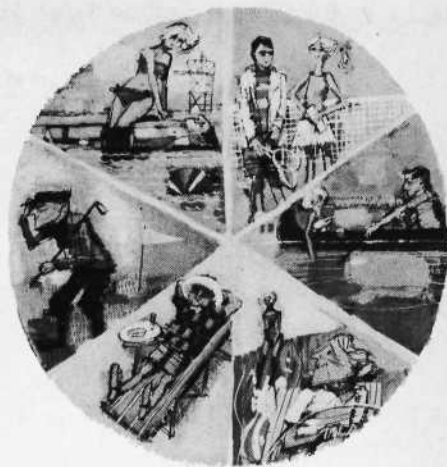
were some tamarisk trees or palo taray."

However, there is more to do at Fort Pearce and Warner Valley than to sit on sun-drenched mesas recalling its past. There are petroglyphs to study, fossils and arrowheads to find, petrified wood to collect, canyons to explore, mesas to climb, and stone-chiseled signatures of pioneers to examine.

There are no improved campgrounds in this remote valley, but it's fun to camp-out for a day or two, making side trips in all directions. Fort Pearce Wash will provide some wood for your camp fire, but the water is too alkaline to drink.

Rabbits, quail and other small animals find living good in the spring area and occasionally a desert mule deer, wild burro or even thirsty cougar will leave tracks in the mud.

Because of mining, movie locations and historical interests a better road has recently been cut to old Fort Pearce. Today, in good weather and with common sense driving, it is possible to drive a passenger car into Warner Valley to the old fort. Side trips off the main trail are strictly four-wheel drive, horseback or hiking terrain, but the entire family can have a field day looking for arrowheads, flint chips, painted pottery shards and old rifle brass around Fort Pearce and its spring. ///



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Coral Pink Dunes of Kanab

By Frank Jensen

WHEN YOU say cow town, Pardner, say Kanab! The name of Utah's most southerly town came from a Paiute Indian word meaning "The Willows," trees which lined Kanab Creek in pre-settlement times.

The first contingent of Mormon settlers moved into the area in the year 1865 and began construction of a fort near the creek bottom. The Black Hawk Indian War followed on the heels of the settlement, forcing abandonment of the partially completed fort and postponing until 1867 a permanently established colony.

From the beginning Kanab was a cow town, although not in the tradition of an Abilene or Dodge City. The Mormons, instead, quietly and stolidly went about carving their empire out of a wilderness claimed by bucolic Paiutes and predatory Navajos whose strongholds lay to the east across the Colorado River. The Navajos raided the Mormon herds and two cattlemen, Dr. James M. Whitmore and Robert McIntire who had built a dugout at Pipe Springs some 30 miles south of Kanab, were among the first victims of the Black Hawk Indian War. As the settlement grew in size it was moved to higher ground—a fortunate move. In 1883 flash floods gouged a 40-foot wash from Kanab Creek, which until then had been a small stream meandering through open meadowlands. Today, the site of the original settlement is indicated by a stone and brass marker located near the north entrance of Kanab.

Modern Kanab has given up the hitching post for excellent motor lodges and restaurants which now line the town's main street. It has also succumbed to the glamor of the films and become a self styled "Outdoor Movie Capital of the World."

A pioneer in the promotion of both the motion pictures and the hostelry business in Kanab is C. W. "Whit" Parry, owner and manager of the Parry Lodge.

At the end of World War I, the two older Parry boys, Chauncey and Gronway, organized the Utah-Arizona Transportation Company and were granted a franchise to operate in three national parks, Zion, Bryce, and the North Rim of the Grand Canyon. The fleet of cars used by the company consisted of high-wheeled Whites, old Nationals and 1919 vintage Cadillacs. Whit, who hired out as a driver at the age of 13, had to prop himself on pillows to see over the steering wheel. When he stopped to repair a flat tire, his passengers, horrified at the midget proportions of their driver, wanted to turn around, but Whit always managed to kid them into continuing the tour.

The route followed by the Arizona-Utah stage lines is easier traveled today over modern highways and in the comforts of air-conditioned automobiles, but during the early 1920s it was a safari that required shovels and axes for road building, tools and spare parts to repair the buggy-topped vehicles, as well as food and water. There is no change in the scenery, however, which is as magnificent today as it was in 1919.

Because the Mt. Carmel tunnel had not yet been built through Zion, early tours backtracked, following a tortuous wagon trail up the side of a canyon carved by the Virgin River near Rockville. The road then swung to the southeast to an old fort at Pipe Spring, thence to Kanab. Adventurous travelers can retrace this same route today on roads somewhat improved.

In 1926 the Parry brothers sold their

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line to the Union Pacific Railroad Company, but retained the old two-story house built in 1880 to use as a lodge.

During the depression Whit helped run the lodge in the summer and spent his winters traveling world-wide on what money he could earn as an amateur boxer. At the peak of the depression Chauncey took a gamble and borrowed \$10,000 to remodel the old home and build eight cottages. Then the brothers prepared a portfolio of scenic photographs and headed for Hollywood. They talked to George O'Brien, then the big name in western heroes. Impressed by what the Parrys told him of the Kanab area, O'Brien brought his film company to Kanab in 1934 and produced the Dude Ranger which became the first of a series of westerns to be filmed in the area. Some that followed were Stagecoach, Union Pacific, and My Friend Flicka. Following Chauncey's untimely death in 1944, Whit picked up the reins and built the lodge into the renowned inn it is today.

The traveler who headquarters in Kanab will find plenty to do and see, either on his own or via guided tours available in the area. The Coral Pink Sand Dunes, located about 10 miles south of U.S. Highway 91 and about an hour's drive from Kanab were once the location of a film where Arabs fought French Legionnaires. The dunes derive their name from their pastel colors.

A cow town of somewhat later historical vintage lies in Johnson Canyon, 18 miles east of Kanab where one of the first motion picture sets was built. Eagle Arch, so named because of its resemblance to an eagle perched on a nest, is also in Johnson Canyon near the set.

Near old Paria, now a ghost town, is another popular movie location. First inhabited by Indians around the time of Christ, old Paria has been populated during historic times by Mormon farmers and, around 1910, by placer gold miners. Scenically, it encompasses one of the most colorful landscapes found in Utah.

The popular attraction of Kanab is its proximity to all of southern Utah's National Parks and Monuments. Because of this, many visitors miss the fact that Kanab is loaded with interest in its own back yard!

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By Raye Price

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This long neglected but fast developing family fun spot is one of the most scenic areas in Utah. Only half an hour's drive from Salt Lake City, an approximate circumference of 50 miles offers a modern resort in an old mining camp, a working dude ranch and a hot mineral spring spa; all in a mountain-framed valley tied to U.S. Highway 40.

Driving east from Salt Lake City, turn at Kimball's Junction to Treasure Mountain's resort at Park City where a 20-minute ride on the Gondola, longest aerial tramway in North America, will pan the entire view before your eyes while you plan an agenda for all this activity. You'll find stables both at the Summit and below with many trails through aspen and pine to hidden lakes and deserted mines. Rock hounding is good and virtually untouched ("The Treasures of Treasure Mountains"—Raye Price, DESERT, Jan. '64), so if you prefer hiking bring your pick and gunny sack or, should wild flowers be your fancy, identify blossoms while picnicking in their midst.

Descending on the Gondola, you'll be tempted by views of Treasure Mountain's golf course adjacent to the Activities Center. Nine holes are open for play this spring with an additional nine slated for future development. A day care center provides a supervised program for the small fry and delicious meals touched with mining lore may be enjoyed in the Center's cafeteria, the Pickkeypoke Pit, or Silver Queen dining room.

The town of Park City is not to be missed. A few new store fronts flaunt lighted signs, but the majority of buildings on Main Street remain as built after the fire of 1898 which gutted the town. You'll find saloons modeled after the mining heyday, a theatre, hostelrys, restaurants, history in the office of the Park Record (oldest newspaper of continuous publication in Utah), and even a dungeon boasting chains and solitary



cells beneath the City Hall. Rickety stairways climb sheer mountains where houses and churches have withstood snowslides, mine disasters, and depressions since the turn of the century. One of the most delightful sights to both youngsters and adults

is a display of penny candy in the window of Pop Jenk's lunch counter.

Only 17 miles from Park City, you'll find yourself in the heart of Heber Valley, surrounded by the Uintah Mountains on one side and the Wasatch range on the other.

Getting back to Highway 40 to complete the circle, you'll find the Mountain Meadow Ranch close to Kimball's Junction. A working dude ranch, there are accommodations and dining facilities as well as hay rides, Wednesday evening square dancing, a fish hatchery and scheduled chariot races and quarter horses in the meadow across the highway.

Boating and water skiing are popular at Echo and Wanship dams, not far from the recreation circle, but fishermen favor the Strawberry Reservoir close by.

So, whether you're headquartering in Salt Lake City or heading East to Vernal's Dinosaur Land, don't overlook Park City's Treasure Mountains and the Heber Valley, some of Utah's newest treats. ///



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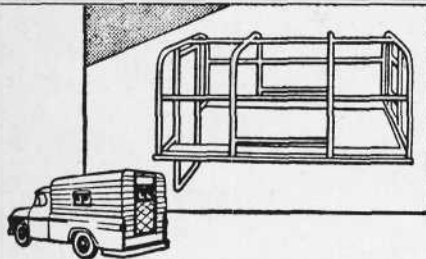
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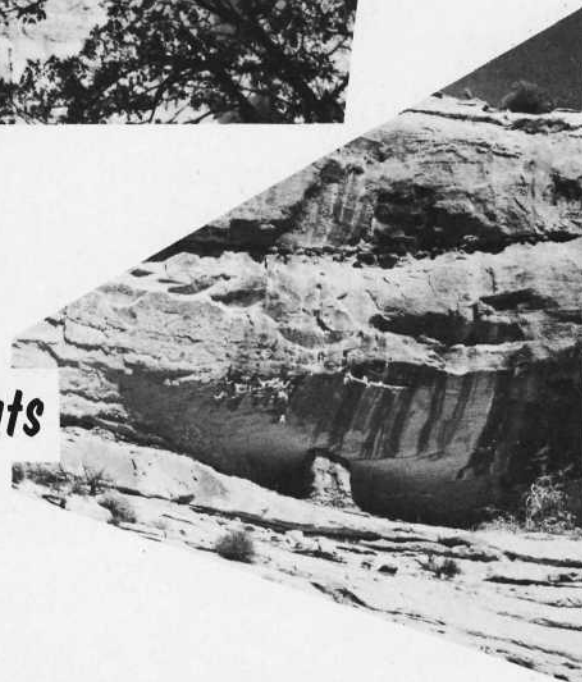
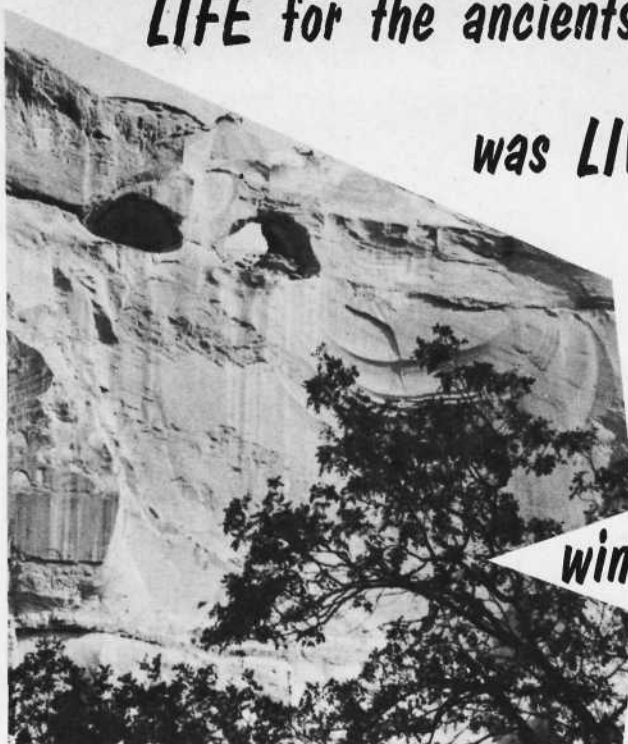
winking walls

hide-a-way huts

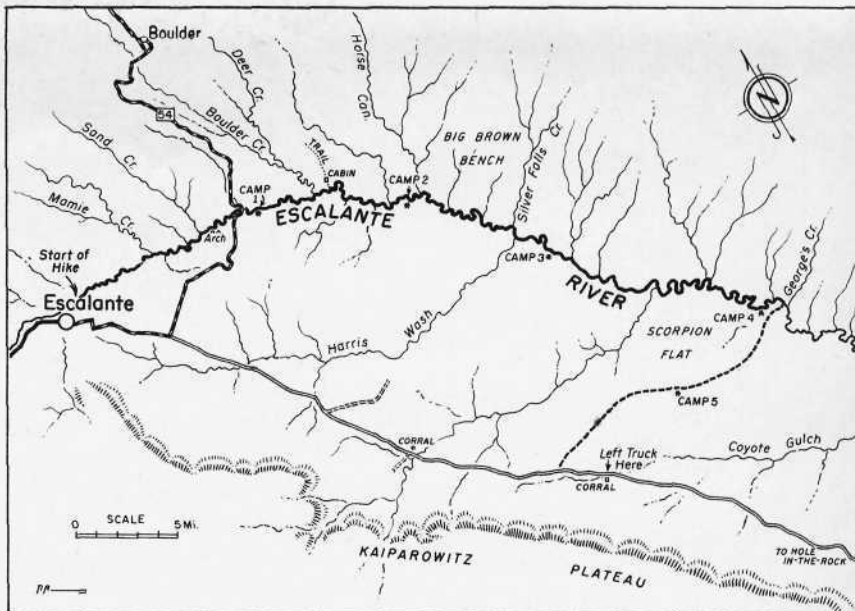
and dancing girls all in a row.

Today's hike

along the Escalante reveals all . . .



By Vaughn Short



IT WAS NEW YEAR'S eve. We were camped in Davis Gulch, a deep, narrow, sheer-walled tributary of Utah's Escalante River. This was our fourth day of back packing. Weary but content, we crowded the warmth of the camp fire. It was a bitter cold spell in the plateau country. Obtaining water had not been easy. The little canyon bottom stream was frozen solid. But at last steam rose from my cup of beef bouillon. As I raised it to drink, I toasted my companion, "Ken, old comrade of the trail, in the year to come may your shoes fit easy and your pack ride light."

Now, ten months later, I was once again in Southern Utah. Ken Sleight had a few days off between his guiding trips in the Glen Canyon and lower Escalante River region. What does a guide do with his spare time? He goes hiking! For this trip he had borrowed his wife's Arabian horse. We would walk. The horse would carry the food and our sleeping bags. Our departure point was the little town of Escalante.

On the edge of town we waded a marshy swag to enter a narrow slot where the river slices through the Escalante monocline. This monocline is a gigantic upheaval of Navajo sandstone. Between us and Stevens Canyon, our destination, was mile after mile of twisting river canyon. I had covered the region below us by foot in the past and Ken regularly guides parties through it. The object of this trip was to familiarize ourselves with the upper river. Also, we hoped to join that almost nonexistent fraternity of those who have walked the length of the Escalante.

From a perch on a rock point some

thirty feet above the stream bed, a Golden Eagle watched us pass beneath and start our trek down river.

At the beginning the Escalante was a small stream trickling between round volcanic boulders. Floods from many years had brought these black rocks down from the vivid canyons. As the day wore on, each new side canyon added water to our growing river.

Toward evening we encountered the first Indian ruin of the trip. Three diminutive abodes crowded high in an alcove. A small arch hid in the cliff above this ruin. A short distance down stream a natural bridge spanned a side canyon. We crossed route 54 at Calf Creek. This is the only road crossing the river between the town of Escalante and the Colorado River. After leaving road noises behind, we made camp for the night.

Next morning we were underway again. The walls were now characteristic of Glen Canyon, red in color and streaked with desert varnish. Once during the morning we climbed out of the canyon on a trail blasted into the rock. Not far from the top we found a little cabin. A wilder, more remote location could not be imagined. This cabin was built to shelter cowboys who ride the back country in search of cattle. Every few miles we found Indian ruins. One appeared outstanding, but it would require a long ladder and a good climber to reach it.

The volume of water had now increased to produce a respectable river. In the afternoon we encountered quick sand. The horse went in belly deep, dunking our bed rolls, but the horse was the big loser. His box of sugar cubes had melted. We made

camp early this day to dry our bags with a fire.

Highlight of our third day's travel was the old Sheffield ranch site. Here, some 64 years ago, a range dispute ended with the ranch house being burned to the ground. Only the old chimney stands.

Slightly above the junction at Silver Falls Creek, sand has spilled over the edge of the canyon wall, forming a slide to the river below. Historians write that pioneers to the San Juan Valley brought wagons down this slide. Local old timers disagree, however, saying the wagon route followed Harris Wash. As we climbed to some unusual pictographs near this slide, a mule deer bounded across the river. Later we met a bob cat that showed his contempt by ignoring us!

Highway maps indicate a road crossing at Harris Wash, but it has long since washed away. After exploring a number of unnamed arches, we camped at the mouth of Fence Canyon near the cabin of Lloyd Gates, a local rancher. We slept under the stars, but cooked breakfast on his stove.

On our fourth day we were surrounded by cinnamon colored cliffs with drapes of black, tan and pink. While making camp at Scorpion Gulch we estimated we had walked 63 miles from our starting point. Stevens Canyon remained another 20 miles down stream. The trip was longer than we had anticipated. Because of previously made commitments in town, we reluctantly filled our canteens with river water in the morning and started our climb out of the Escalante.

The course led up a long sand dune that rose to the base of a towering



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sandstone cliff. After arriving at the top of the dune, huffing and puffing, we started out upon a ledge at the foot of the cliff, thinking this would take us up onto the desert, but after a mile and a half we were cut off by a deep chasm. Retracing our trail, we set out in the opposite direction. Some three miles later we again encountered a barrier. Hours of searching finally revealed a rock bench from which, looking west, we could see the distant Kaiparowits Plateau. Setting our course toward a conical peak, we started across Scorpion Flats, which soon proved to be anything but flat. Instead, the flats consisted of steep sand dunes and mazes of slick rock hills and canyons. Night caught us miles away from Hole-in-the-Rock road.

At daylight we were again under-way. After a mile we found ourselves cut off by a deep, straight-walled gorge. Veering north toward the summit of the drainage, we finally reached the road where a previously positioned truck awaited us.

The upper Escalante River is true wilderness. It does not contain the immense arches of the lower river but the brilliance of its walls is beyond comparison and its many side

canyons drive a true adventurer crazy wondering what they contain. Our one disappointment was that we did not reach Stevens Canyon. There is some 20 miles of twisting, looping canyon we have not yet traversed. How many river crossings are still to be made; how many pockets of quick sand for the unwary? Will there be a Moqui ruin around the next bend or perhaps an unreported pictograph? There is only one way to find out.

Before many moons have passed, once more I will be lashing my sleeping bag to my pack frame and heading for the big red country. Ken and I still hope to be among the few to walk all 118 miles of the Escalante River. It's a very exclusive club! ///

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• ROBERT GIBEAUT AT ESCALANTE CANYON INDIAN RUIN IN 1963. PICTURE BY BUD KLETTE.

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Whatever Happened to the GREAT SALT LAKE?



IT COULD HAVE dried up, for all I knew! It had been fifteen years since I'd more than glimpsed a distant sunset over the Great Salt Lake . . . a typical Utahn!

But there *were* days the lake made summer adventures. Before times of household air-conditioning, our family would dodge the heat about 9 p.m. and head for the beach to swim; floating in the brine was therapy and a good shower left us ready for sleep regardless of the temperature. As teens, we spent hours sunning or at the boat harbor where we sailed or even water skied behind motor launches; then the dock burned down, the lake receded far from the pavilion at Saltair where we danced to "name bands," and we left the place to geography books and disappointed tourists.

Recently, a series of news articles revived my interest; there were plans to reincarnate the lake. I set out to discover if I thought it was worth it.

I found that, although the lake is polluted by sewage disposal and plagued by unpleasant odors, there are still many persons using and enjoying it. Rockhounds dig the northeastern shores for salt formations and selanite crystals buried in its clays, dried-flower fanciers seek oolitic sands for realistic preservation of blossoms, and, at Sunset Beach, bath-houses and a hamburger stand are available as well as tours on the Great Salt Lake Monster, a renovated army amphibious duck which crawls along the shore then plunges into the water for a cruise to the southern tip of Antelope Island and back. Tourists from all over the world marvel at the salt density which makes it possible to float on top of water and it's obvious that many of them have seen the famous photograph of a floater reading the newspaper.

These waters didn't always have a concentration of salt six times the density of the ocean. Salt Lake is a remnant of Lake Bonneville, one of the Great Basin's larger fresh water lakes, which occupied most of western Utah, extending south almost to the Arizona line and north into parts of Idaho during the Pleistocene period, or Ice Age. The gradual drying of Lake Bonneville divided the area into many independent basins with Great Salt Lake the largest of three remaining bodies of water. The varying levels of the lake are etched upon the surrounding mountains, a visual story of the past, and, as it has no outlet but evaporation, it has become a dead sea.

Animal life is virtually non-existent in these highly



By Raye Price

saline waters. Old records tell of someone planting oysters and lobsters at Bear River Bay in 1871, but, after thriving for several months, they choked to death on the salt water. A pioneer newspaper rumored that there was a school of whales imported to the lake from Australia but more responsible sources tab this a "fish story" and admit that tiny brine shrimp are the only living creatures in the lake.

Diggings show that Indians were the region's first inhabitants, but white persons have also lived on several of the eight islands. One of the most interesting tales is that of the Wenner family who moved to Fremont Island in 1886 and stayed for five years (DESERT, Feb. '44.) Determined to give up the social whirl of a lawyer's life during Salt Lake City's mining heyday, Judge U. S. Wenner sold his home and took his wife and two children to the desert island. They built a rock house and made monthly trips to the mainland for supplies but, other than that, they stayed to themselves and "learned to know ourselves, enjoy ourselves, our children, and our books." They raised sheep on the fine pastureland and the children had pelican, horned toad, and lizard pets. They were happy until disaster struck when Judge Wenner died and, due to a storm, it was three days before help could be summoned. Mrs. Wenner and the children then left the island, but years later one of the daughters returned to bury her mother's ashes beside her father's grave.

Since the Wenner family left, Fremont Island has been used for sheep ranching and is privately owned. The Wenner graves and remnants of their stone houses are still there as well as a cross embedded in rock said to have been carved by Kit Carson on a trip there with John C. Fremont in 1843. (DESERT, Feb. '42.)

Interested in a close look at one of the islands, I obtained permission from the Island Ranching Company for myself and a guide to spend a day on horseback touring Antelope Island, largest of the group. (The island is joined to the mainland by a private road over the salt flats.) What I saw amazed me! Rather than being a bleak desert, there are acres of wheat and the area abounds with greasewood, sage, rabbit brush, and rich grasses for cattle feed. At the ranch on the southeast side is the oldest occupied house in Utah, a 5-room adobe structure built in 1848. Although there are modern improvements in a cinderblock addition, the exterior is original. One of the island's hundreds of fresh water springs is nestled under willows in the yard and a grove of apple trees grows close by.

After seeing the ranch-house, my guide, DeLos Searle, trailed the horses toward the north end of the island where he pointed out numerous coves beached in soft white salt-sand . . . clean, quiet, and inviting . . . and we surprised a group of deer. Our truck scattered sunflowers like a scythe and, as we twisted up and down

narrow trails, I was appalled at the size of the mountains dividing the island like a giant spine.

At one time it was called Buffalo Island for, in 1893, a herd of buffalo had taken over; around thirty head still remain. I was bent on seeing them. We left the truck and saddled our horses to ride into the canyons, but the buffalo were elusive that day and we were forced to be satisfied with discovery of wallows and tracks, indicating that they had recently passed. The buffalo hunt wasn't a complete loss, however, for it took us high to the tops of the hills where we saw beautiful views of the lake, the distant Wasatch Mountains and many ravines filled with springs and maple trees. It was this glimpse which convinced me that plans for restoration and a recreational center were imperative.

One of the biggest problems of the lake is its shrinkage due to dry weather and the impoundment or diversion of the Jordan, Weber, Ogden, and Bear Rivers that feed it. Many of the former islands are now joined to the coast by salt beds and most established beaches on the south end are high and dry. Because of this, interest has settled on Antelope Island whose north side embraces the deepest offshore waters.

Three plans are being investigated at the present time. Last summer, Gov. George D. Clyde appointed a group of men from various interested agencies as the Great Salt Lake Authority, with legislative funds to effect purchase of all or a portion of Antelope Island for recreational and tourist purposes. This group is interested in building a road from the town of Syracuse, on the east shore, to the north tip of the island, where bath-houses and tourist facilities would be maintained.

Senator Frank Moss has introduced a bill to set aside the western side of Antelope Island as a National Monument to provide "an entertaining and educational display of the geologic history of the Great Basin area from the present time back to the Ice Age."

The third plan being investigated is the feasibility of using tailings from the Utah Copper Division of the Kennecott Copper Co., for constructing dikes between the various islands to create a new Great Salt Lake, with reduced surface area, as well as a fresh water lake for bathing and boating.

No one knows at this time which plan will be accepted, but Utahns are reasonably sure that something will be done. I hope so, for I've seen it now . . . its appealing coves and beaches, flocks of birds headed for the several migratory bird refuges on its shores, Promontory Point with the Gold Spike that linked East and West by rail. I've rediscovered the amazement of floating on top of water, felt its tingling salt stir my blood, and I've learned from the history and geology rich on its surface. Now I know there's more than a sunset to close my day! ///

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GEOLOGISTS MEASURE PART OF ONE MILE OF SALT CORED FROM THE EARTH.

A City on a Cushion of Salt

By Robert Norman

MOAB IS FAMOUS as the only town on the Colorado River in the State of Utah, but it also is important for its location atop one of the largest deposits of salt in the United States. The salt deposit, known at the Paradox salt basin, resulted from evaporation of large amounts of ocean water that overflowed into a closed sea some 300 million years ago.

Much of the past and future of this semi-isolated town of 6000 persons is directly or indirectly dependent upon its salt. The overall salt deposit, which roughly radiates 100 miles from Moab, can be reached in many places at a minimum depth of 500 feet and extends to a maximum thickness of about three miles.

As contrasted to the brittle reddish sandstone rocks at the surface, the underlying salt is quite plastic with a tendency to flow. A constant unloading of sediments by the Colorado River and adjacent tributaries has created many points of weakness, where in certain areas salt has moved vertically, like tooth paste from a tube, arching, fracturing or cutting across overlying varicolored layers of sandstone and limestone. Wind action on some of the more fractured surface beds has created such famous tourist attractions as the Needles country, presently under consideration as the Canyonlands National Park, and the Arches National Monument.

Adjacent to the 4000-foot-elevation of Moab is a contrasting cluster of 13,000-foot La Sal Mountains (Spanish for "salt"). According to geolo-

gists, the La Sals were formed by the vertical rise through the less-restrictive plastic salt of hot magmas which spread out near the surface to form the mushroom-shaped mountains, called laccoliths. As well as providing topographic beauty, the La Sals are well known for deer hunting and trout fishing.

Within the La Sal mountains, salt is believed to have played a role toward precipitating accumulations of uranium, lead, silver, gold and other minerals. Sandstone and limestone beds surrounding the mountains have tilted and lifted over 5,000 feet and some of the structural features present a favorable potential for the accumulation of oil and gas. These potentials within and surrounding the La Sals are yet to be explored and developed.

Some of the nation's largest potash (potassium and magnesium salts) deposits are now known within the Moab area and Texas Gulf Sulphur will soon be mining one of the potassium-rich salt beds. The thick salt beds and the thinner interbedded shales serve also as the source and reservoir bed for the nation's major oil discoveries within the past decade. The original Paradox basin oil discoveries, Aneth in 1956 and Lisbon in 1960, touched off a multi-million dollar seismic and drill-hole exploration program by the major oil companies. In 1962 Pure Oil Company discovered a well between Moab and Dead Horse Point which flowed oil from the salt interval at a rate of 450 barrels per day. Six miles away, and closer to Moab, Southern Natural Gas Co.,

discovered oil at a rate of 660 barrels per day from the same interval. More recently, on an offset test, Southern Natural discovered a 266-barrel well from a different salt horizon. Last October the Calvert Exploration Company began a deep test near the original discovery made by Pure Oil. These developments are only in the beginning stages. A potential oil boom seems to lie ahead.

Within Moab Valley and adjacent valleys, ground water action has leached the near-surface salt beds, leaving remnants of large gypsum deposits which may prove commercial in the future. In addition, authorities believe there is a relationship between the salt and the nation's largest helium and uranium reserves which occur in overlying sand beds surrounding Moab.

The more localized vertical flowage of salt, such as that within Moab Valley, has shaped porous sandstone horizons into a U-shaped trough through which flows below-surface uncontaminated fresh water. These large and well-oriented troughs slope toward Moab from the La Sals. Separated from underlying salt and gypsum waters by non-porous shale beds, these waters provide Moab with a closed water system that is gravity-fed from natural reservoir beds to the cities' storage tank.

Considering its rapidly developing potential in the development of uranium, oil, potash and other minerals, this town in the heart of the Canyonlands may soon turn from a cushion of salt to a beehive of industry! ///

MONUMENT CANYON,

Broken Home of Ancient Gods

A FEW MILES east of where the Green and Colorado Rivers converge lies an amazing land of towering stone pinnacles and slender minarets. This is Monument Canyon. It's a quiet, lonely land, yet accessible to modern cars over a partly paved 63-mile road.

Back in 1952 I had partially explored this country by horseback under the guidance of pioneer guide Ross Musselman. The old Shafer Trail we followed then is now replaced with an automobile road, one of the few routes to the river from the plateau.

Last summer, accompanied by a few friends, we decided to retrace our former route, this time by auto. After traveling from our El Cajon, California, home to Moab, Utah, we left the main highway six miles north of town and followed a winding road along the Colorado River. After about 17 miles we reached the end of the pavement—where a 30 million dollar potash plant is under construction—and then began the fun.

Along this route the river appears in one of its pleasant moods—a wide, placid stream meandering slowly between red sandstone walls, giving little hint of the wild turbulence to follow when it enters Cataract Canyon, some 70 miles below.

Before the days of high-powered motor boats, this section of the river often served as an escape route for some who found local jails too confining. Such an incident was recorded in 1924 when two cattle rustlers escaped from the county jail at Moab and made their way down river in a rowboat. Pursuing officers in another boat were just about to overtake the fugitives when they beached their craft and disappeared into a side canyon, never to be heard from again.

At the end of the pavement a dirt road leads upward and away from the river to a junction with the Shafer Trail, 14 miles away. The road

was rough in spots, but we covered the distance without incident. As we passed our campsite of 1952 I could not help but make a comparison between the time required to reach it on the two occasions. On the first trip it took three days; this time we were less than three hours from our starting point, including time out for a swim in the river.

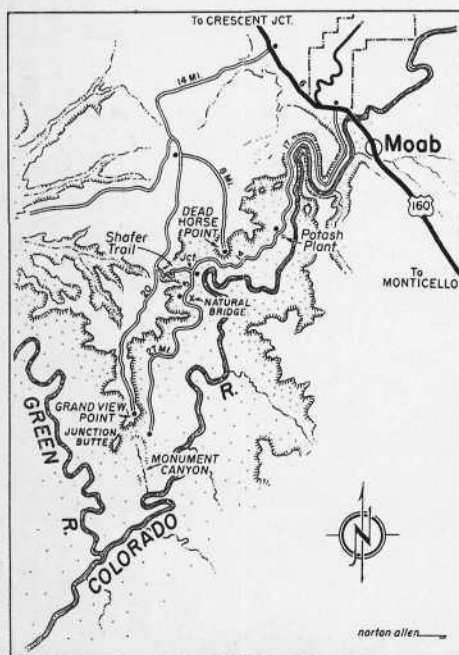
Five miles beyond Shafer Trail junction the road crosses a tableland of hard, white sandstone known as the White Rim. A section of the road leading to White Rim is not one that will appeal to a timid driver. On the inside is the rocky wall of the canyon, on the outer side a few feet of shoulder, then a straight drop of several hundred feet. It's a good road, as mountain roads go, but requires a steady hand at the wheel.

The effect of erosion on the softer sandstone which supports the White Rim has produced a fantastic array of figures that need little help from the imagination to give them recognizable shapes. One of its odd formations is a natural bridge, the span of which is at the same level as the surrounding terrain. This feature makes the bridge difficult to locate even though it lies just a few hundred feet from the road. It is best photographed from the canyon below, but that operation requires scaling the canyon walls. This is well worth the effort, however, as it is the only point from which the massiveness and extent of the bridge can be fully appreciated.

The road from the bridge winds around a red sandstone cliff along the edge of the White Rim for approximately 27 miles. We encountered minor difficulties when the bumper of our loaded station wagon scraped on sandstone passing in and out of the washes, but we got through without mishap.

Your first impression of Monument Canyon is apt to vary with your mood and temperament. One man de-

By Walter Ford





THE BRIDGE AS SEEN FROM BELOW THE WHITE RIM.

scribed his initial view as "two or three minutes of petrified eternity." After the first impact you become aware of its awesome silence—a silence so profound that you find yourself listening to it. Looking down into the canyon past its rim of white sandstone, you see a box-like depression with slender pinnacles and monoliths rising almost to the level of the canyon rim.

As we arrived at Monument Canyon the sun dropped behind a westerly butte and long shadows crept across the valley floor. We sat on the canyon's rim, unaware of passing time, and watched shadows give way to a purple haze, then change to a darker gloom. We were as spectators in an ancient amphitheater, waiting

for a massive stone curtain to rise and let the performance begin.

At this point a voice said, "I'm hungry. Let's make camp." Reverie ended!

The next morning we began our trip to the bottom of the canyon. In Moab we had learned that the only opening was between two rocks on the east side of the canyon, but we had difficulty locating it because it was hidden by a shrub. The trail into the canyon is deceptively steep, as you don't realize its angle until you begin the upward journey. From the bottom of the canyon, pinnacles that looked like toothpicks from above become multi-storied towers. You could spend days exploring in its ever-changing play of light and shadow, but

there is no water in the canyon and the canteen diminishes rapidly with activity under a summer sun.

An interesting climax to the Monument Canyon trip is a drive to Grand View Point where it may be viewed from above. To reach this point there is a choice of two ways. One, up the Shafer Trail which clings to the side of precipitous, thousand foot walls, or retracing your route along the river to the main highway out of Moab, then proceeding north for about six miles to the regular Grand View Point road. The Shafer Trail cut-off provides a saving of 60 miles, but is not recommended for those unaccustomed to mountain driving. Whichever way you go, an added bonus will be a visit to Dead Horse Point which lies a few miles from the Grand View

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Perhaps looking down upon it, you will see intriguing trails that you missed or hidden coves that you might have explored. If so, console yourself with the thought that country such as this was never intended to be covered in a day, or even a lifetime. It does not make friends hurriedly. You can come back yearly, as we have been doing for the past decade, and find that each successive trip holds promise of still greater enchantment in another year. ///



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LAKE POWELL

(Continued from Page 23)

Frank Wright. The day's trip under the guidance of Jim Hunt took us through fantastic country with stops at Natural Bridges National Monument and over part of the trail of the hearty Mormons whose expedition in December, 1879, from Escalante to Bluff through Hole-in-the-Rock has been called super-human.

Since my trip, water has reached Castle Butte where Staveley now operates. For those who want to drive to Hite, arrangements can be made for their vehicles to be driven to Wahweap while they are taken down the river to Wahweap by boat.

Embarking at Hall's Crossing and with Gay and Joan Staveley and Jim Hunt piloting three new powerful boats, we spent three fascinating days traveling the 120 miles down the Colorado River and Lake Powell to Wahweap Landing, just across the river from Page. There we met Art Greene, another veteran guide who operates the Wahweap concession.

The saying "pictures speak louder than words" is definitely true of this area of Southern Utah. So instead of trying to describe the breath-taking scenery, with relaxing days and peaceful nights under the stars, I have selected only a few pictures of the hundreds I took to show why this trip, or similar trips, proves that the area is truly "The Different World of Utah."

///



DOWN THIS STEEP CLIFF WHICH THEY CALLED THE "HOLE-IN-THE-ROCK" MORMONS IN 1892 ENROUTE TO BLUFF LOWERED THEIR WAGONS AND HORSES BY ROPE, A FEAT DESCRIBED AS SUPERHUMAN. IT IS SEEN FROM LAKE POWELL.



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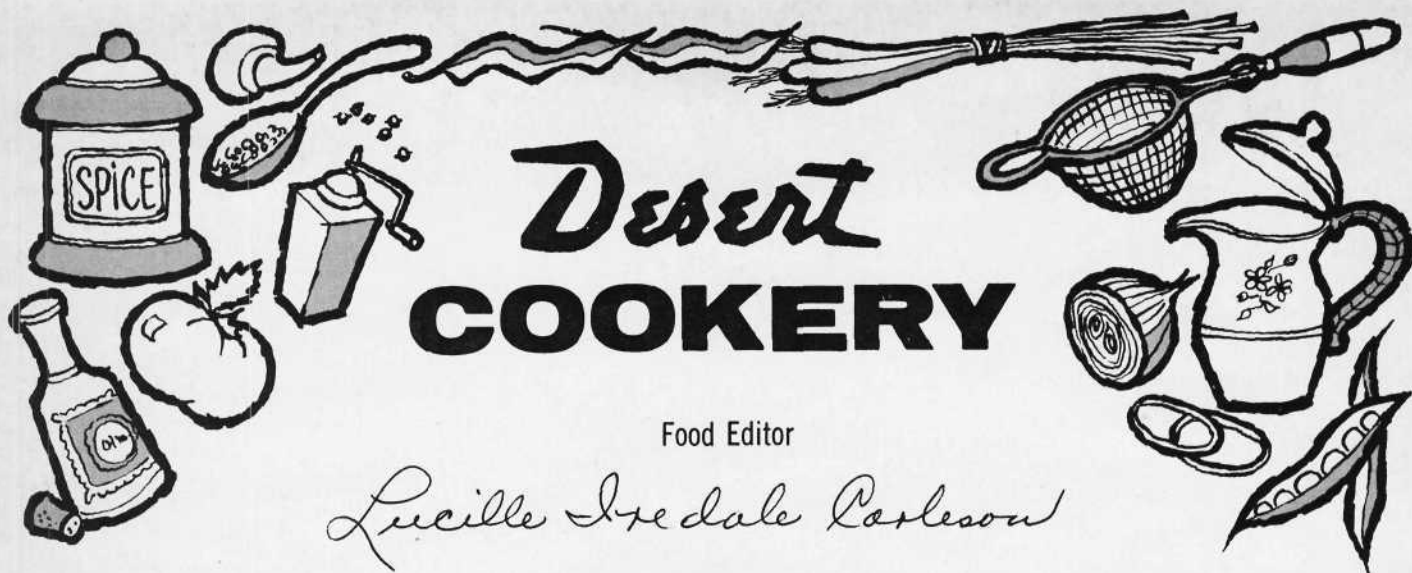
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MOCHA MOUSSE

- ½ cup semi-sweet chocolate morsels
- 3 egg yolks
- 2 teaspoons instant coffee powder
- ½ teaspoon almond extract
- 3 egg whites stiffly beaten
- ¼ cup sugar

Melt chocolate in top of double boiler over boiling water. Remove from heat, cool slightly. Add egg yolks, one at a time, and beat well after each addition. Add dry coffee and almond extract. Beat well and cool.

In a bowl add sugar to stiffly beaten egg whites and beat until glossy. Fold into coffee mixture. Heap into parfait glasses or glass dessert dishes. Refrigerate until ready to serve.

COOKIE DESSERT

- 2 packages orange gelatin
- 2 cups boiling water, for part of water use juice from Mandarin orange slices
- 1 small package hydrox chocolate cookies.
- 1 quart orange sherbet
- 1 small can Mandarin orange slices

Dissolve gelatin in water and juice. When partially set, beat in the orange sherbet. Line bottom of shallow pan with two-thirds of the chocolate cookie crumbs. Place gelatin mixture over crumbs and sprinkle rest of crumbs over top. Use orange slices as a garnish or you may fold some of them into gelatin and sherbet mixture. Chill a few hours and cut into squares for serving. Serves 12.

CHERRY CHEESE PIE

Cover pie pan with vanilla wafers and stand half ones around sides.

- 1 8-ounce package of cream cheese, at room temperature
- 1 15-ounce can Borden's Eagle Brand milk
- 1 teaspoon vanilla
- 1/3 cup lemon juice

Put cheese and milk into electric blender, mix well and add lemon juice and vanilla. When thickened, pour over vanilla wafers, and refrigerate. A short time before serving cover with a can of chilled cherry pie filling. This is delicious, but very rich, so cut into small serving pieces.

APRICOT CHIFFON PIE

For the crust, combine 1½ cups graham cracker crumbs, 2 tablespoons sugar, and ½ cup melted butter. Blend well, and press firmly against sides and bottom of 9-inch pie pan. The easiest way to do this is to cover with a pan the same size, and press. Chill this in refrigerator for 2 or 3 hours before adding filling.

Filling:

- 1 tablespoon unflavored gelatin
- ¼ cup sugar
- ½ teaspoon salt
- 3 egg yolks, beaten
- 1 cup buttermilk
- 1½ cups apricot puree (cooked and sweetened dried apricots, sieved)
- 3 egg whites
- ¼ cup sugar

Combine gelatin, sugar and salt in top of double boiler; add egg yolks and buttermilk. Cook over boiling water until slightly thickened and

gelatin has dissolved. Remove from heat; blend in apricot puree. Chill in refrigerator until cool and beginning to thicken. Beat egg whites to soft peaks, gradually add sugar while continuing to beat, and when very stiff fold into apricot mixture and chill until firm.

CRANBERRY CRUNCH SQUARES

- 1 cup quick-cooking oats
- 2/3 cup brown sugar, packed
- ½ cup flour
- ½ cup coconut
- ½ cup butter

Cut butter into mixture until crumbly. Place half of mixture into 8-inch square greased pan. Cover this with a 1 lb. can cranberries, either whole or sauce. Spread rest of oatmeal mixture over top. Bake 45 minutes at 350 degrees.

I make this ahead of serving time, then put in the oven for a few minutes to heat, which is delicious with cold ice cream.

CHERRIES JUBILEE

- 1 pint pitted canned Bing cherries
- 1½ teaspoons corn starch
- 2 tablespoons water
- 2 ounces Kirsch
- 1 pint vanilla ice cream

Pour juice from cherries into a sauce pan and heat through. Dissolve cornstarch in 2 tablespoons water and add to cherry liquid. Stir until thickened. Add cherries. Warm the Kirsch. Place ice cream in dishes. Ignite the Kirsch and pour into cherry sauce. Pour blazing cherries over ice cream. Serves 4.

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COOKERY

SOFT GINGER COOKIES

Cream 1 cup shortening with 1
cup sugar.

Add 1 well-beaten egg and 1/2
cup molasses.

Add 3/4 tablespoons vinegar
to 3/4 cup canned milk.

Sift together 3 cups flour, 1 tea-
spoon salt, 2 teaspoons baking
soda, 1 teaspoon ginger and 1
teaspoon cinnamon.

Add milk alternately with the dry in-
gredients to the shortening and
sugar mixture. Drop by teaspoon 2
or 3 inches apart on greased cookie
sheet. Bake for about 10 minutes in
375 degree oven.

DATE COCONUT SQUARES

1/3 cup shortening

1/3 cup brown sugar

3/4 cup flour

Cream shortening and sugar and
blend in flour. Pack lightly in an
8x8x2-inch pan and bake in 350 de-
gree oven for 8 minutes.

2 well-beaten eggs

1 cup brown sugar

2 tablespoons flour

1 teaspoon baking powder

1/4 teaspoon salt

1/2 teaspoon vanilla

1/2 cup coconut

1 cup chopped dates

1 cup chopped walnuts

Blend eggs and brown sugar. Stir in
sifted dry ingredients and add van-
illa, fruit and nuts. Pour over baked
mixture, return to oven and bake for
30 minutes at 325 degrees. Cut in
squares.

*In response to a reader request,
Mrs. Alan Lathram of Chugwater,
Wyoming submits this recipe for Man-
zanita Berry Jelly*

Choose edible berries, smooth and
clean in appearance with no gum-
miness of berries or bush. Pick early
in June when they are full grown,
but still green. Wash well and put
in kettle with water to cover. Cook
until tender. Crush fruit and con-
tinue cooking few minutes longer.
Strain through jelly bag, measure.
Heat juice to boiling. Add equal
amount of sugar. Boil briskly until
jellied. Seal in glasses. If berries are
too ripe, use certo. We experimented
with a mixture of orange juice and
pulp and like it better.

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DESERT MAGAZINES, 1937 through 1942 incomplete (44 issues). 1943 through 1963 complete. Make offer. W. Schlenger, 134-W-Pearl, Port Hueneme, California.

BOOKS: "Old Bottles and Ghost Towns," many sketches. See Desert, February '63 issue. \$2.15 prepaid. Mrs. Adele Reed, 272 Shepard Lane, Bishop, California.

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LETTERS FROM OUR READERS

Freshwater Jellyfish . . .

To the Editor: The desert jellyfish article (DESERT, Jan. '64) stimulated a lot of scientific interest. Thank you for forwarding your letter from a Massachusetts reader regarding freshwater jellyfish there. We shall incorporate his information in our file concerning the organism.

WILLIAM HASKELL,
Department of Biology,
University of Nevada, Reno

New Friend . . .

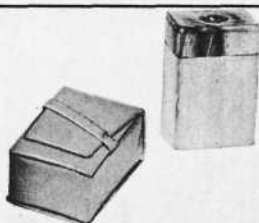
To the Editor: My wife and I came from Kansas to winter in California for the fifth time, but this is the first year we became acquainted with DESERT Magazine. I liked the December copy so well that I ordered the 18 issues advertised on the back cover and subscribed. It is the most interesting publication I have ever read. The Salton Sea story in the March issue especially interested us, as soon we expect to spend some time there.

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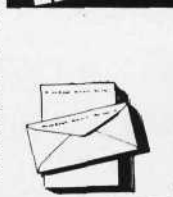
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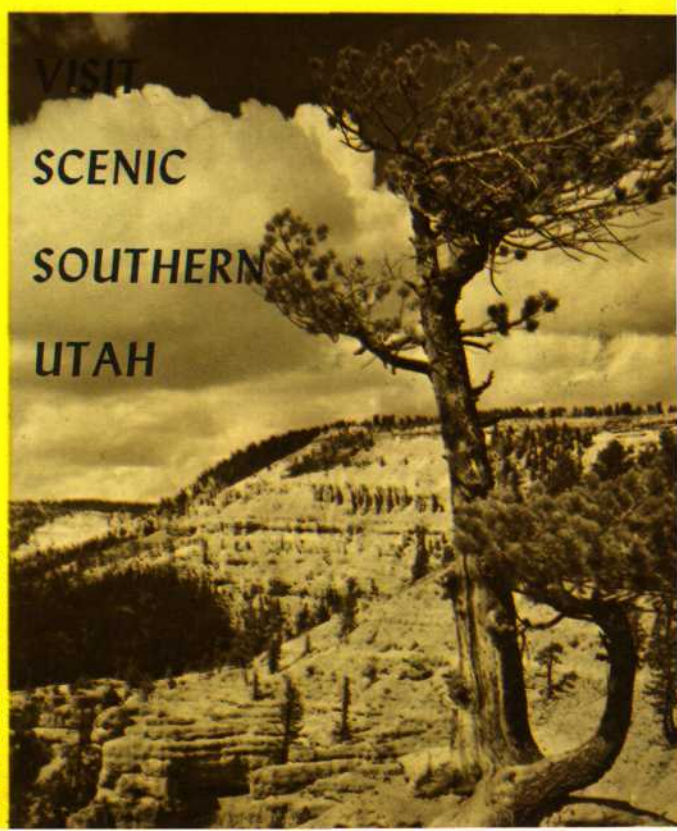
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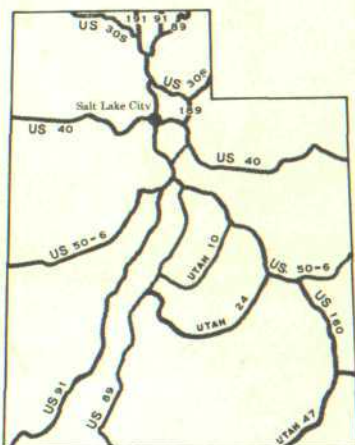
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